

APPENDIX G. LIFE-CYCLE-COST RESULTS

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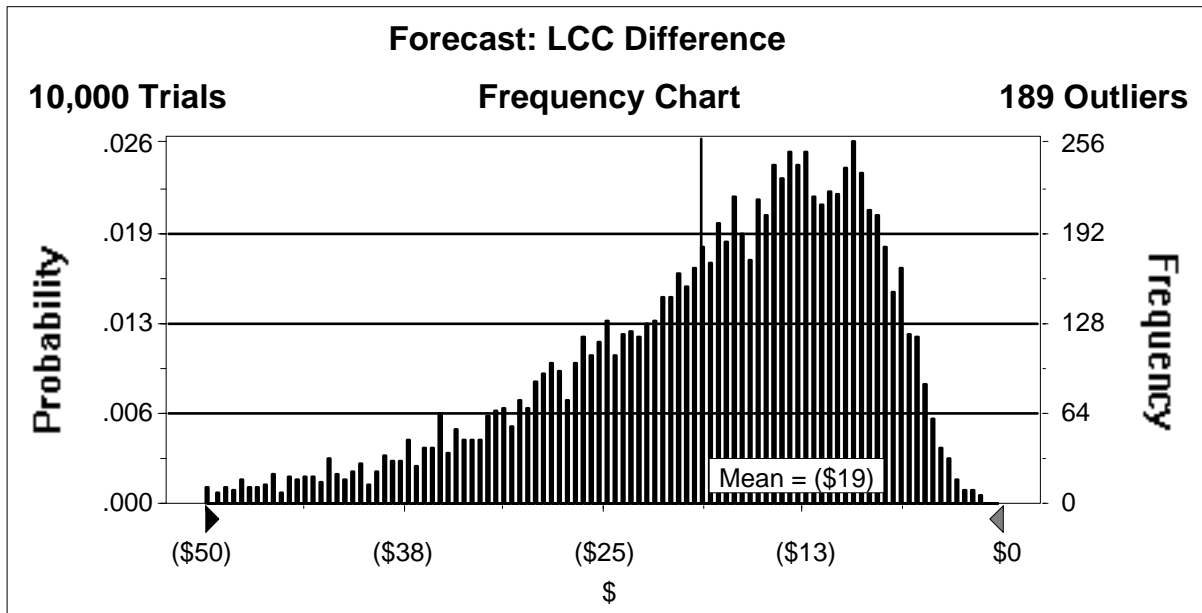
APPENDIX G. LIFE-CYCLE-COST AND PAYBACK PERIOD RESULTS

This appendix contains the complete set of life-cycle-cost (LCC) and payback period results for all the efficiency improvement levels analyzed for clothes washers. For details on the methodology used to calculate the LCC and payback period refer to Chapter 7.

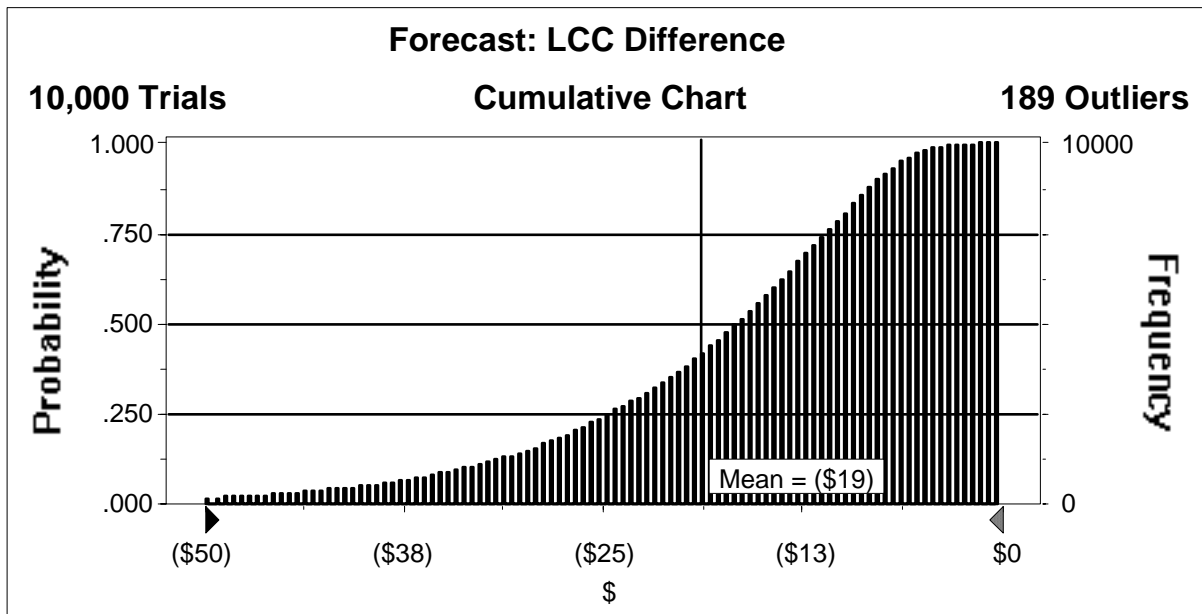
G.1 LIFE-CYCLE-COST RESULTS

The following section contains the preliminary LCC results for all the efficiency improvement levels. For each efficiency level, frequency and cumulative charts are provided showing the distribution of expected LCC differences from the baseline design. Three economic growth scenarios, as defined in EIA's Annual Energy Outlook 1999, were run for each efficiency level. These can be found in Figures as shown below:

- Reference Economic Growth Scenario – G.1 to G.22
- Low Economic Growth Scenario – G.23 to G.44
- High Economic Growth Scenario – G.45 to G.66



**Figure G.1 MEF of 0.860 (5% Reduction in Energy Use), Reference Case
Frequency Chart of LCC Differences**



**Figure G.2 MEF of 0.860 (5% Reduction in Energy Use), Reference Case.
Cumulative Chart of LCC Differences**

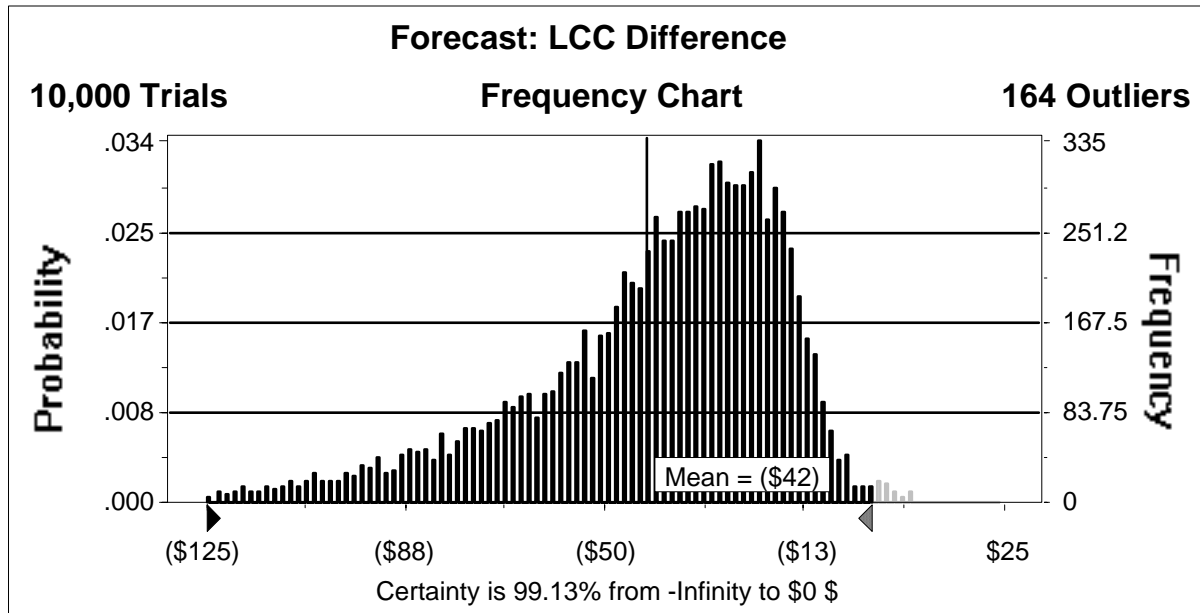


Figure G.3 MEF of 0.908 (10% Reduction in Energy Use), Reference Case.
Frequency Chart of LCC Differences

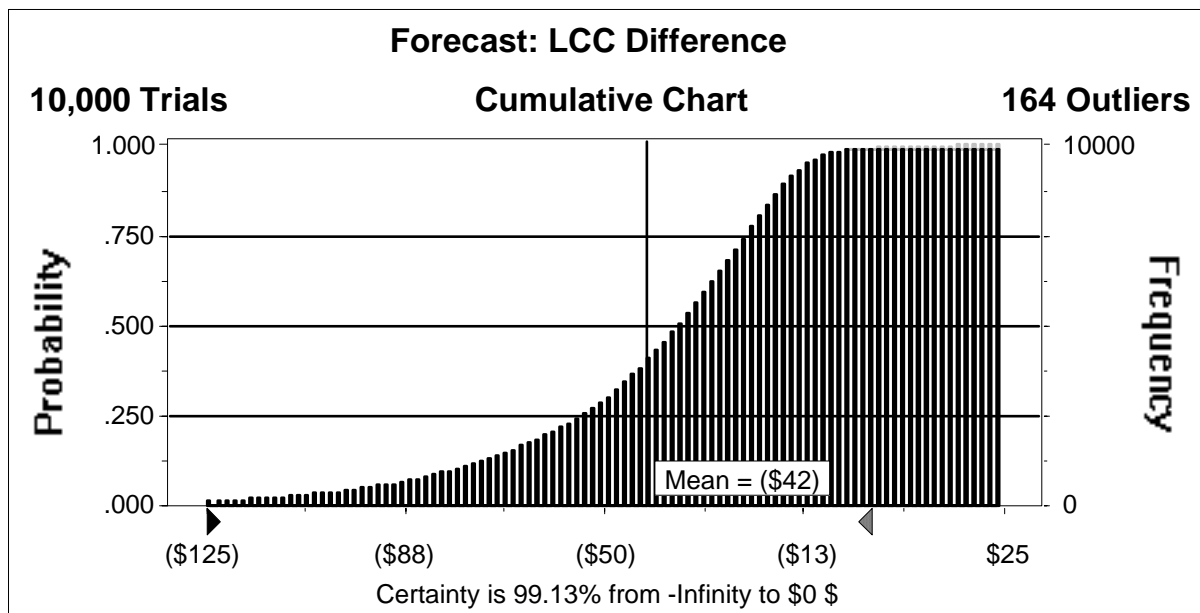


Figure G.4 MEF of 0.908 (10% Reduction in Energy Use), Reference Case.
Cumulative Chart of LCC Differences

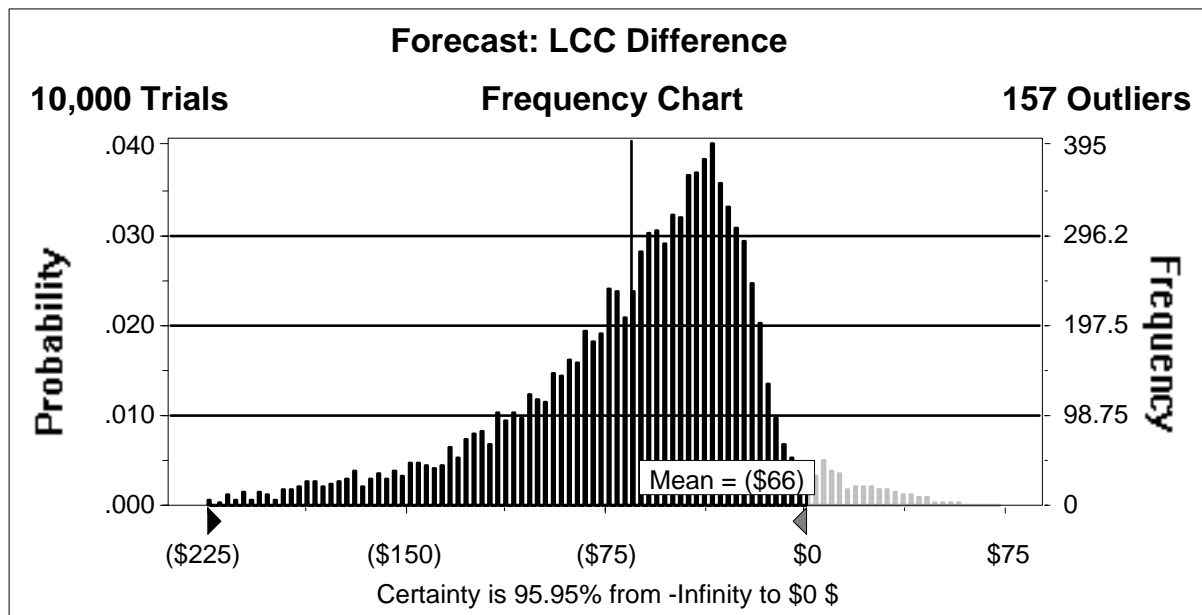


Figure G.5 MEF of 0.961 (15% Reduction in Energy Use), Reference Case.
Frequency Chart of LCC Differences

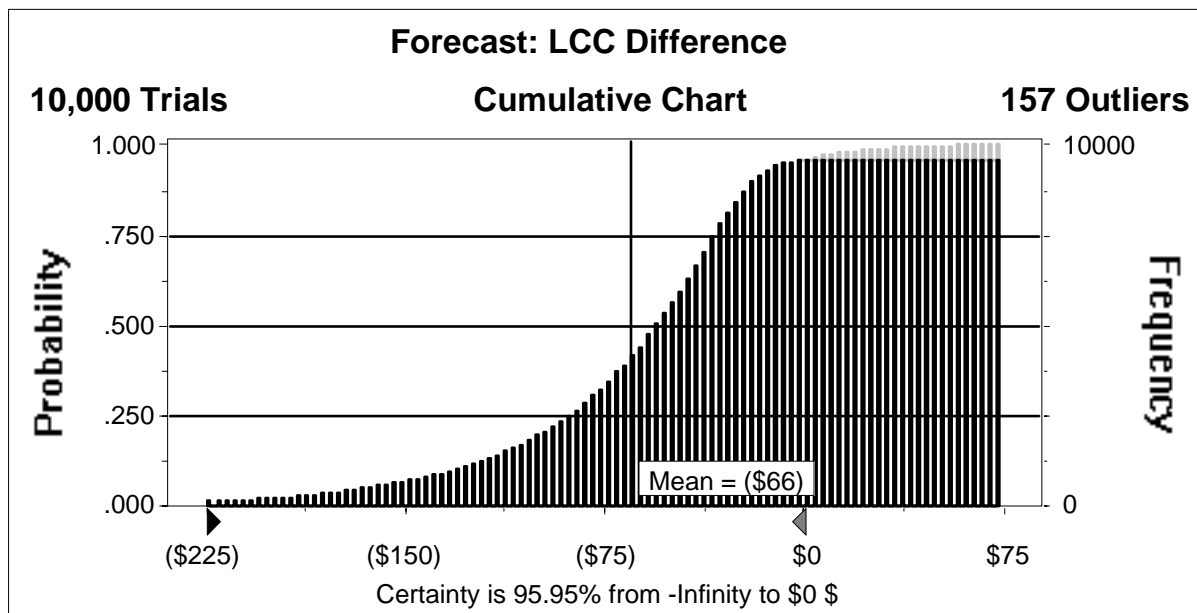
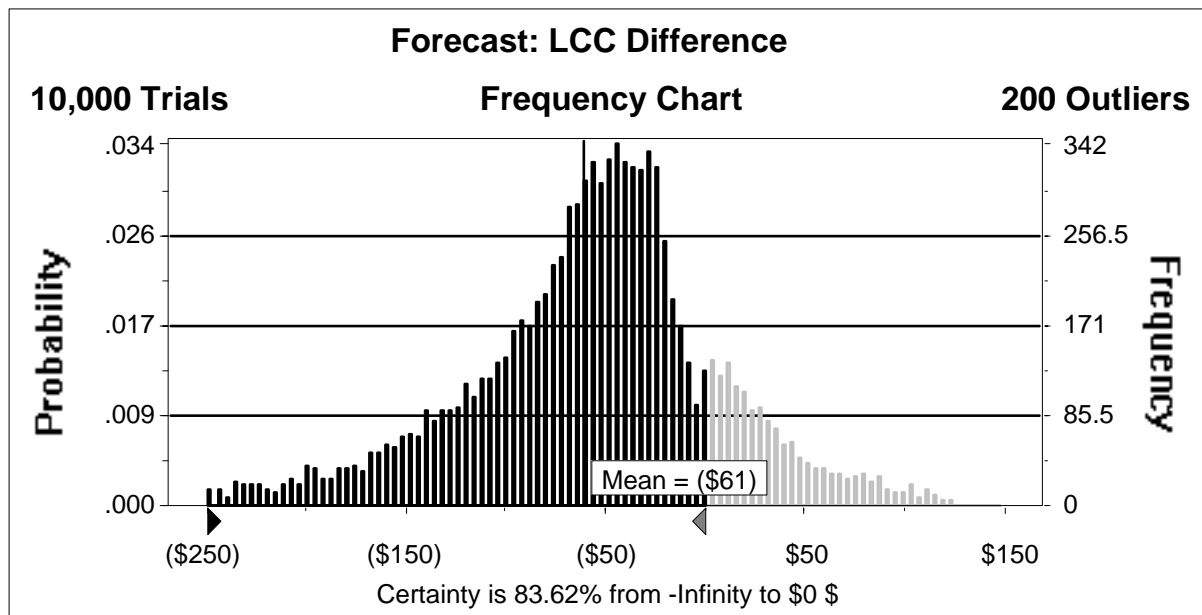
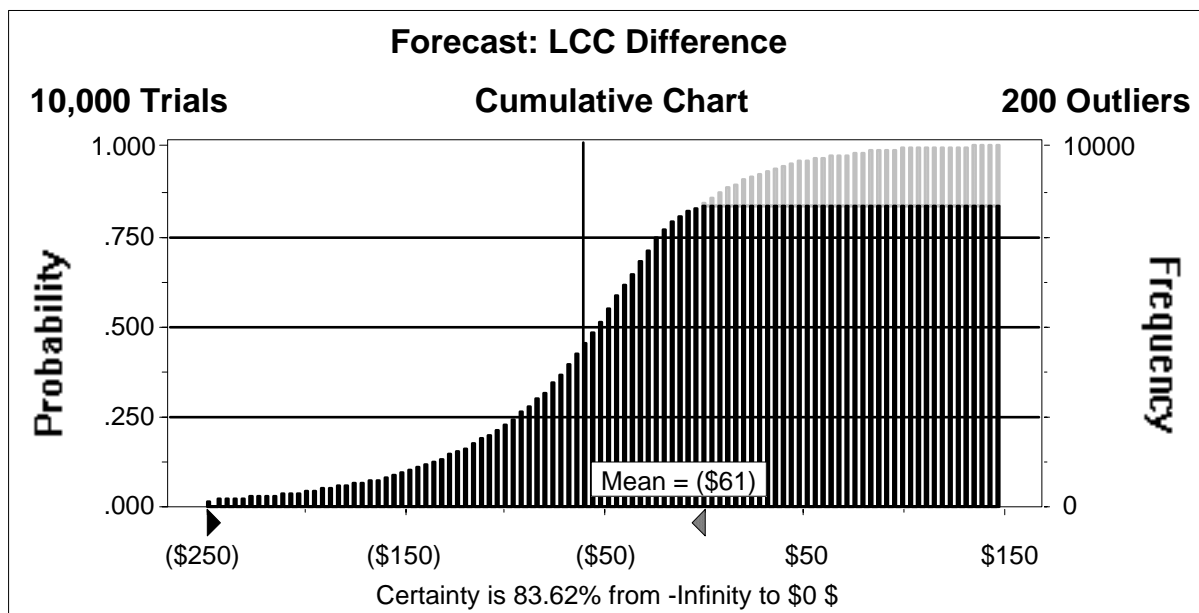


Figure G.6 MEF of 0.961 (15% Reduction in Energy Use), Reference Case.
Cumulative Chart of LCC Differences



**Figure G.7 MEF of 1.021 (20% Reduction in Energy Use), Reference Case.
Frequency Chart of LCC Differences**



**Figure G.8 MEF of 1.021 (20% Reduction in Energy Use), Reference Case.
Cumulative Chart of LCC Differences**

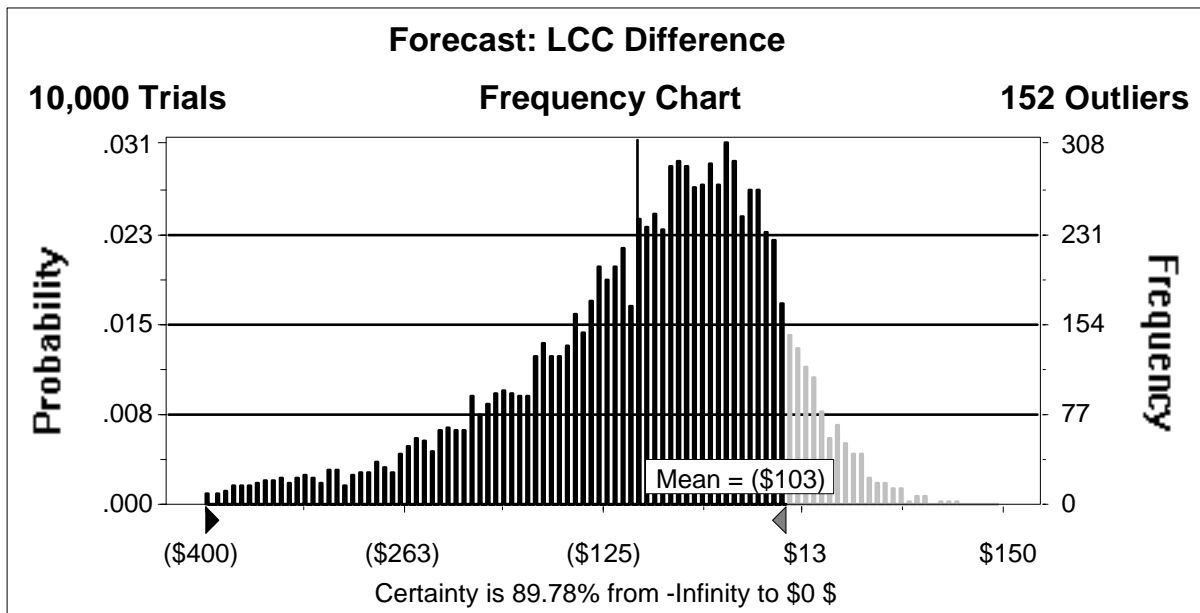


Figure G.9 MEF = 1.04 in 2004, Reference Case. Frequency Chart of LCC Differences

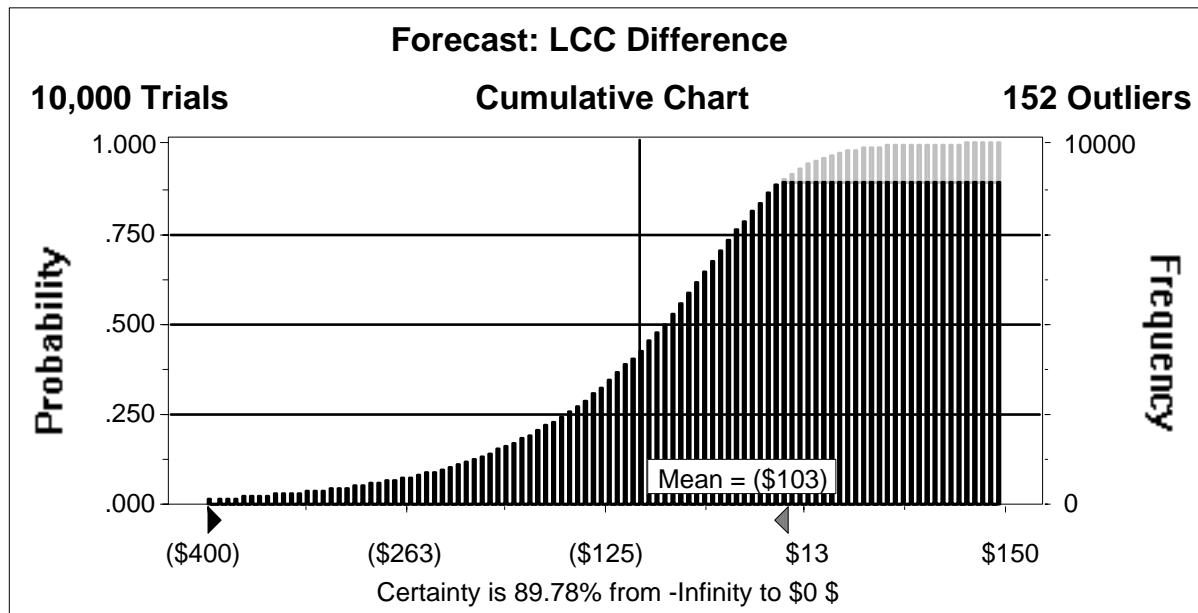
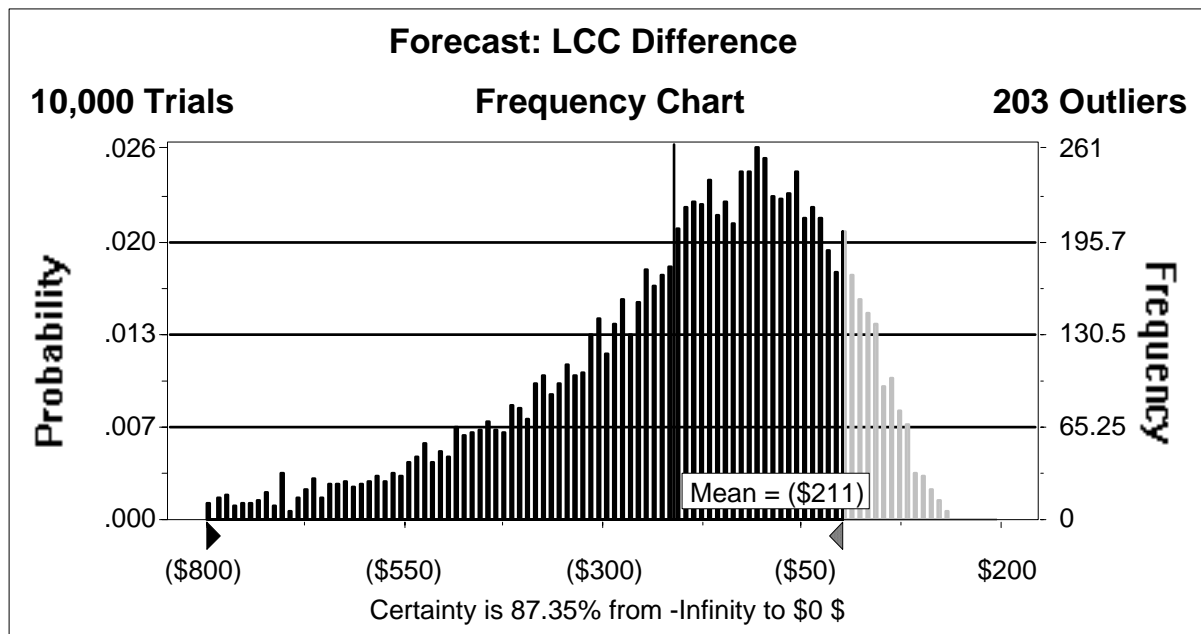
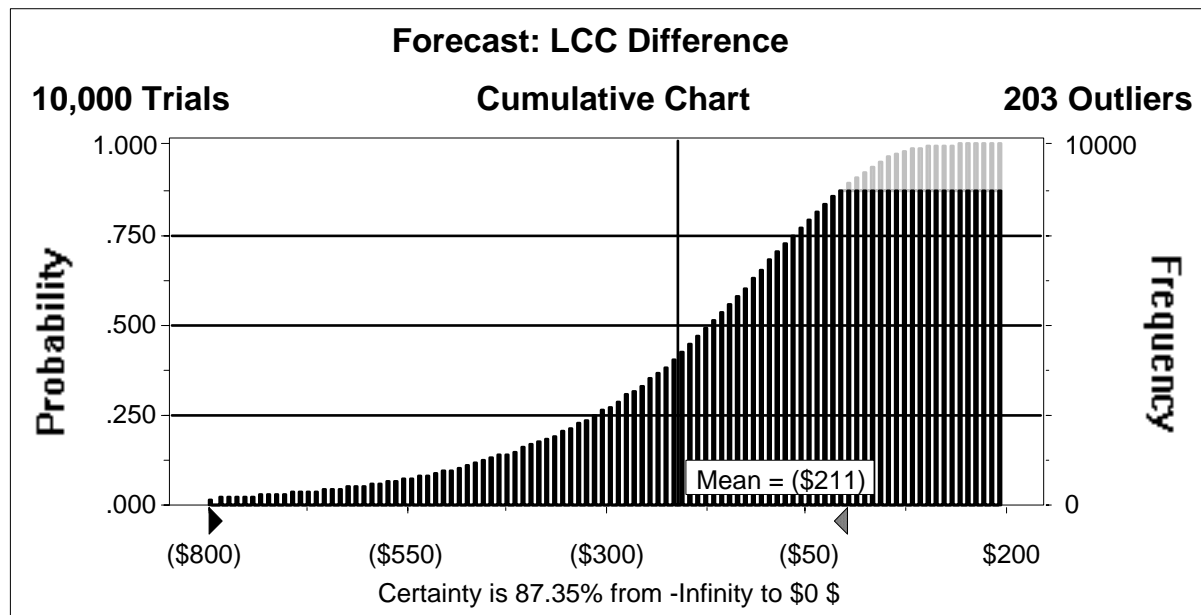


Figure G.10 MEF = 1.04 in 2004, Reference Case. Cumulative Chart of LCC Differences



**Figure G.11 MEF of 1.089 (25% Reduction in Energy Use), Reference Case.
Frequency Chart of LCC Differences**



**Figure G.12 MEF of 1.089 (25% Reduction in Energy Use), Reference Case.
Cumulative Chart of LCC Differences**

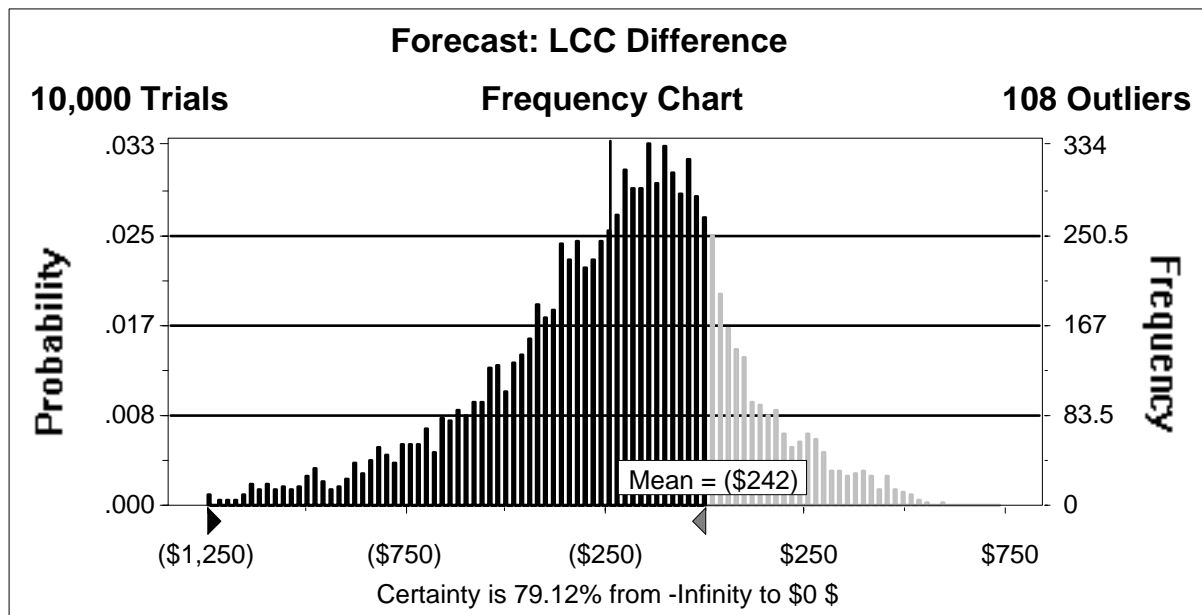


Figure G.13 MEF of 1.257 (35% Reduction in Energy Use), Reference Case
Frequency Chart of LCC Differences

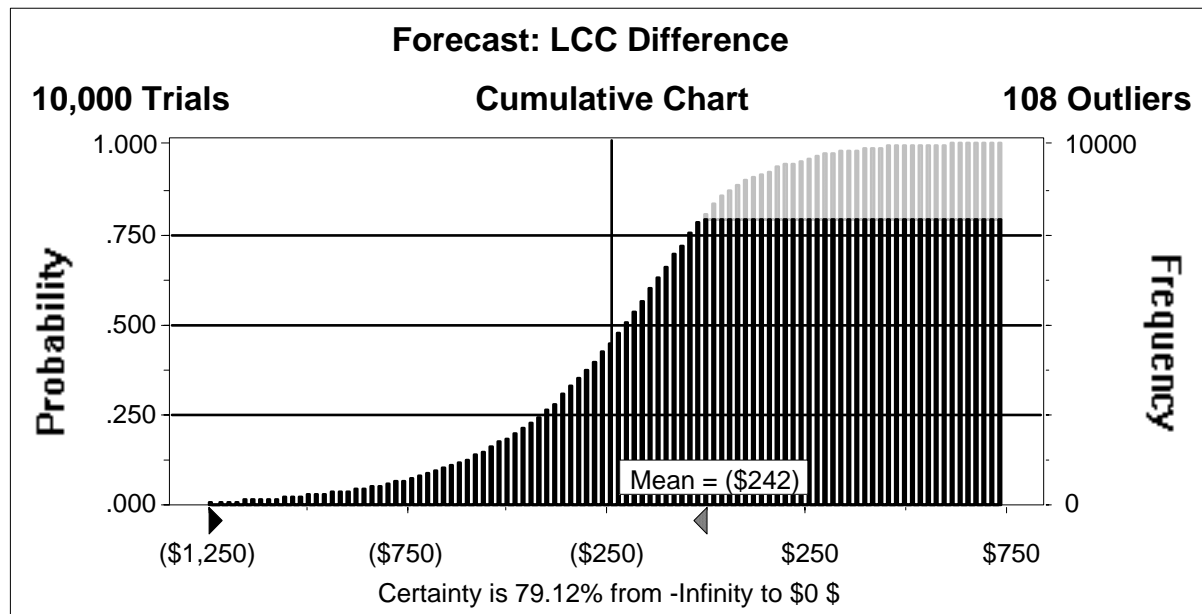


Figure G.14 MEF of 1.257 (35% Reduction in Energy Use), Reference Case.
Cumulative Chart of LCC Differences

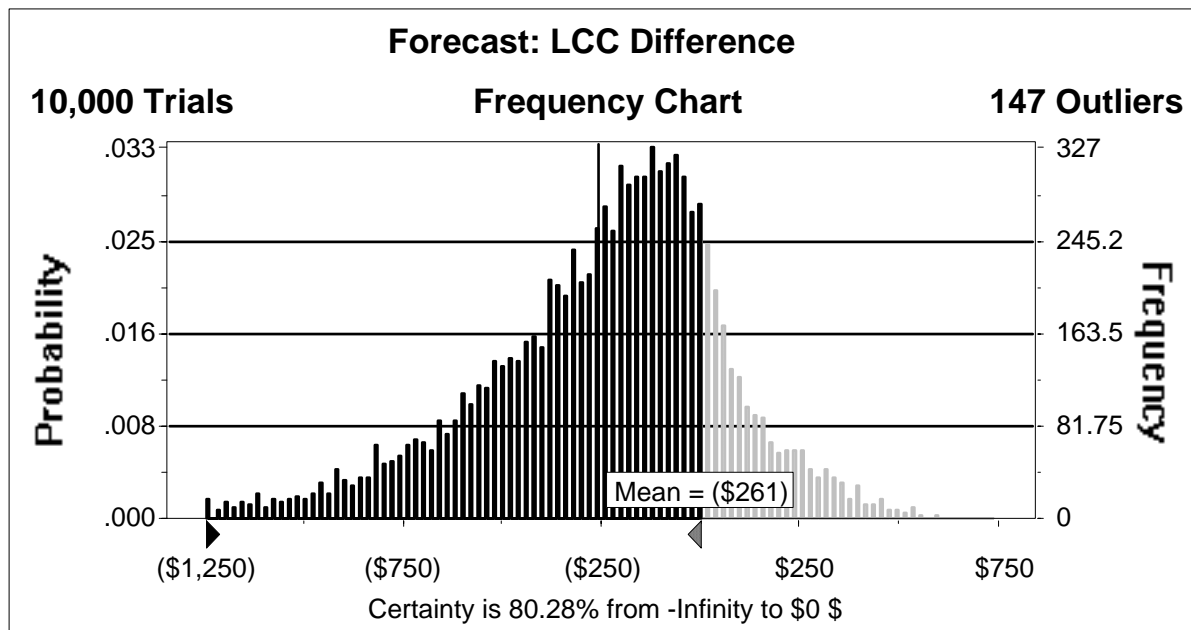


Figure G.15 MEF = 1.26 in 2007, Reference Case. Frequency Chart of LCC Differences

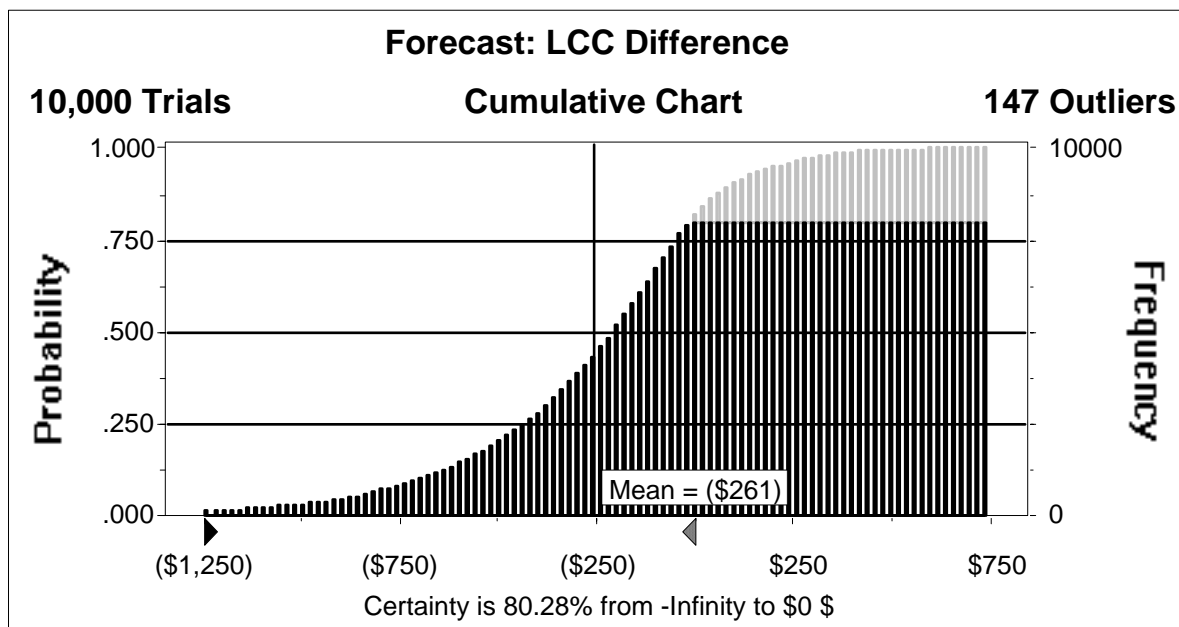


Figure G.16 MEF = 1.26 in 2007, Reference Case. Cumulative Chart of LCC Differences

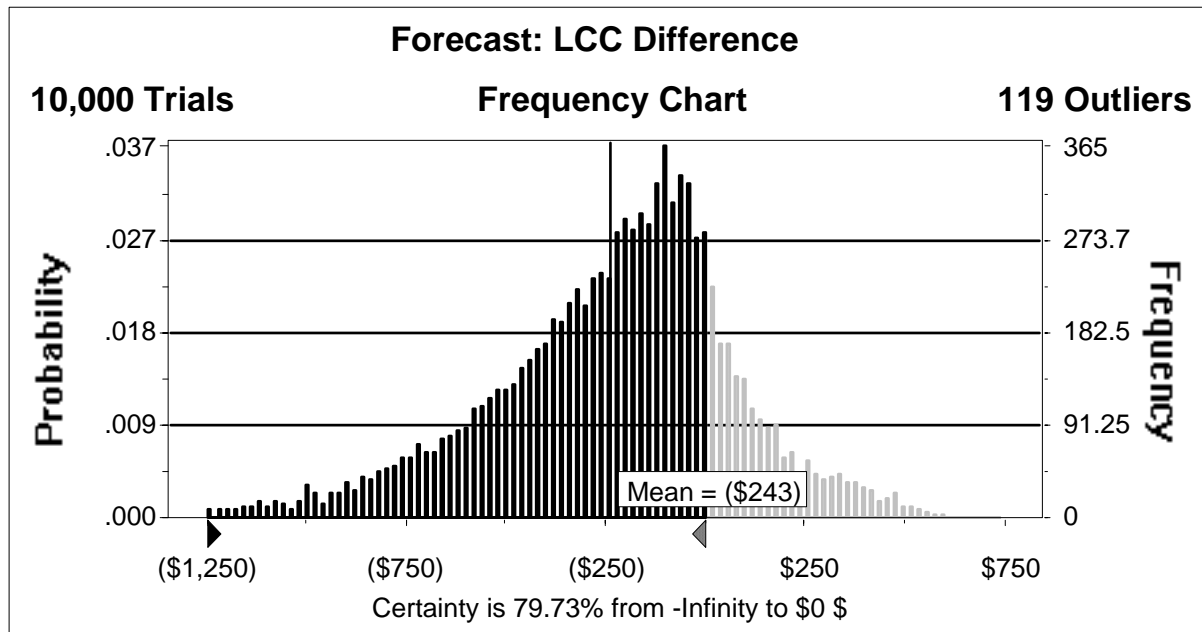


Figure G.17 MEF of 1.362 (40% Reduction in Energy Use), Reference Case.
Frequency Chart of LCC Differences

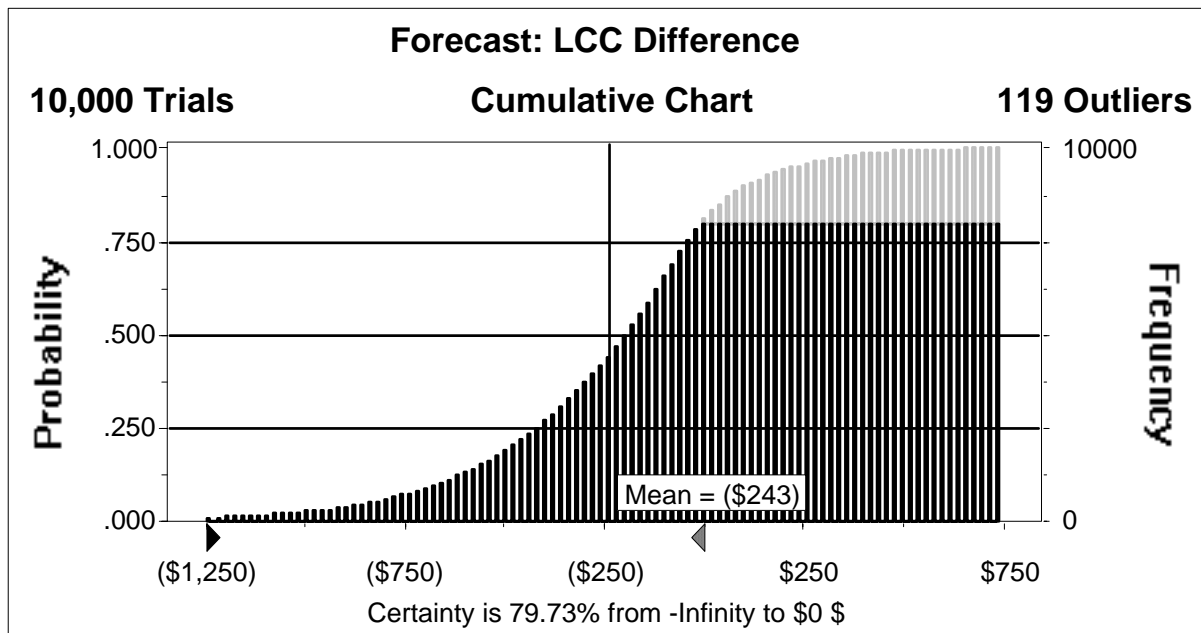


Figure G.18 MEF of 1.362 (40% Reduction in Energy Use), Reference Case.
Cumulative Chart of LCC Differences

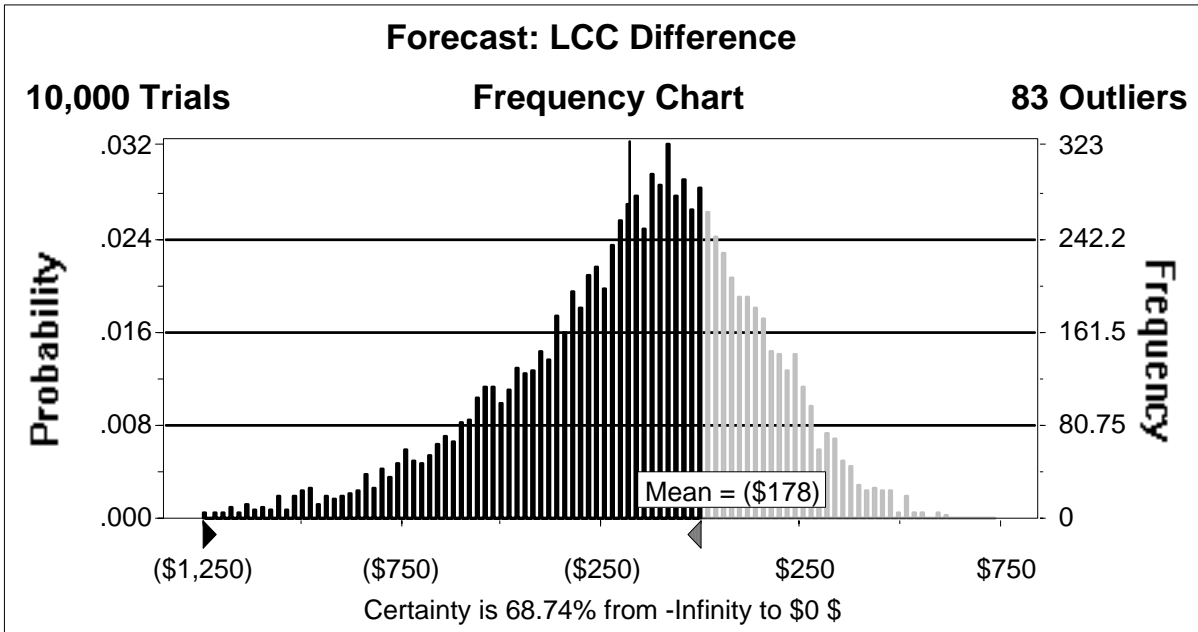


Figure G.19 MEF of 1.485 (45% Reduction in Energy Use), Reference Case.
Frequency Chart of LCC Differences

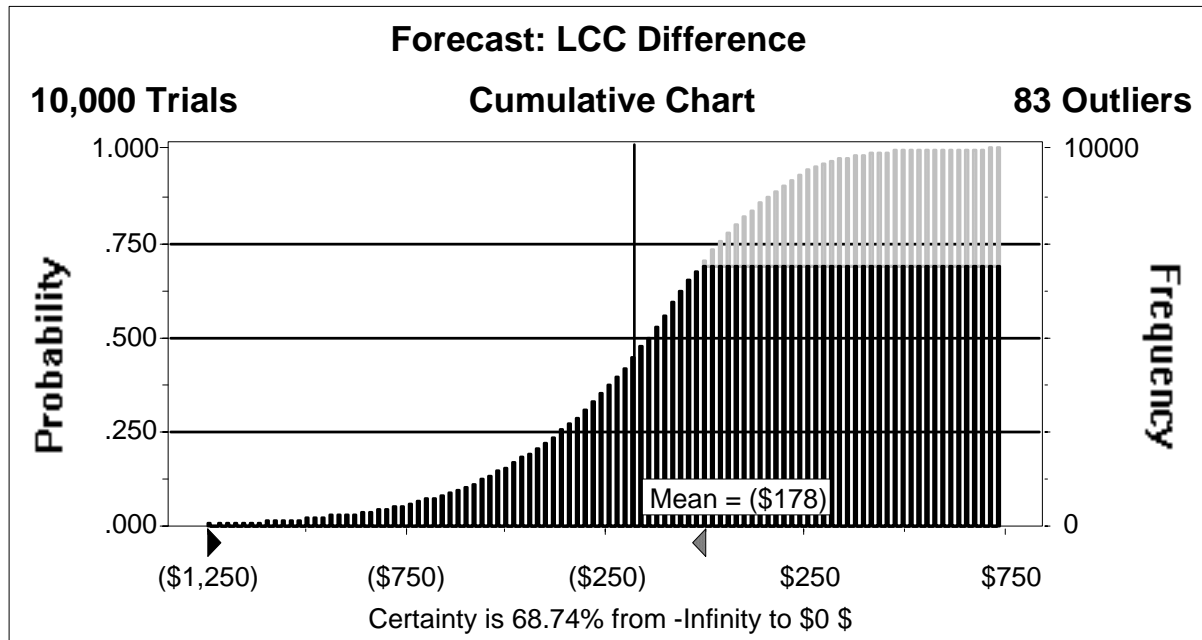


Figure G.20 MEF of 1.485 (45% Reduction in Energy Use), Reference Case.
Cumulative Chart of LCC Differences

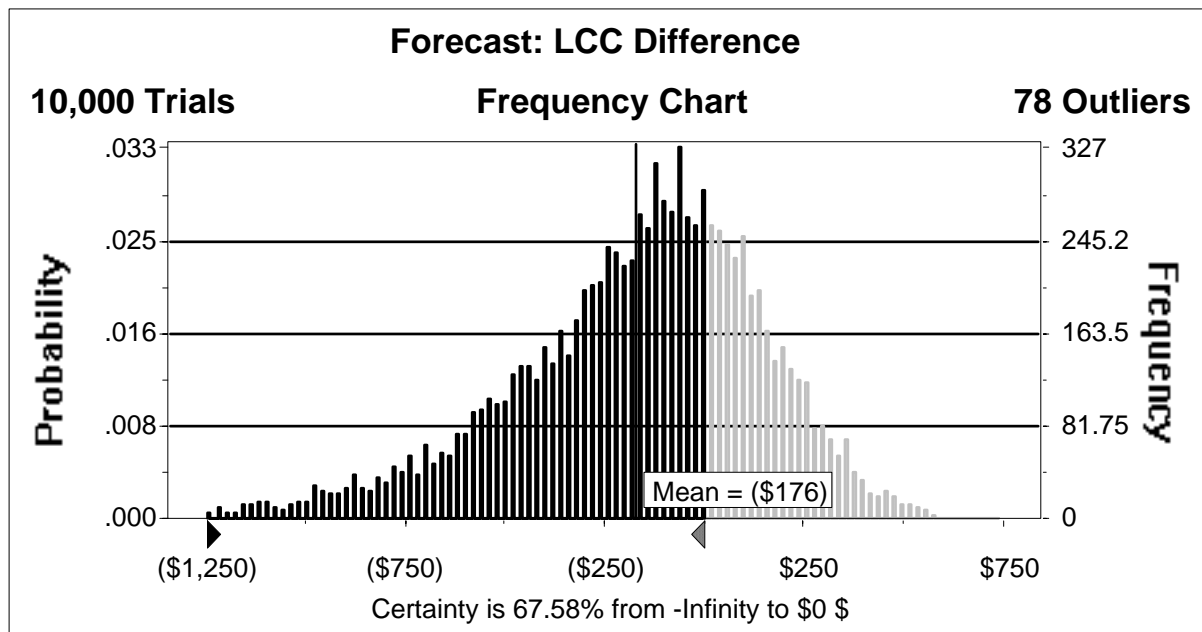


Figure G.21 MEF of 1.634 (50% Reduction in Energy Use), Reference Case.
Frequency Chart of LCC Differences

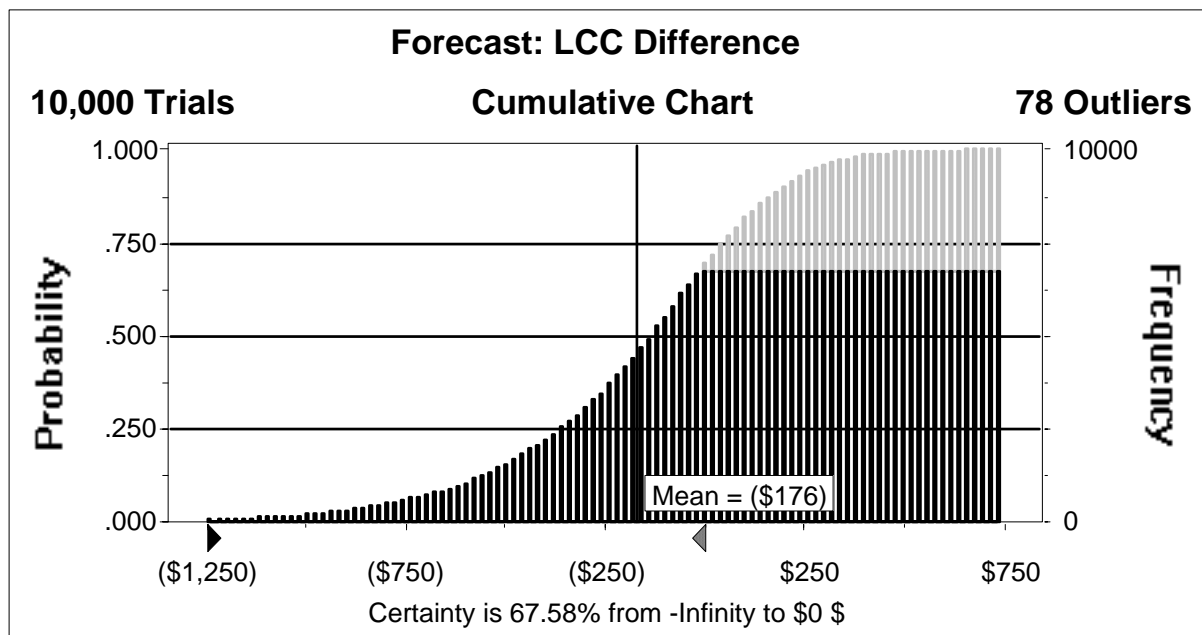


Figure G.22 MEF of 1.634 (50% Reduction in Energy Use), Reference Case.
Cumulative Chart of LCC Differences

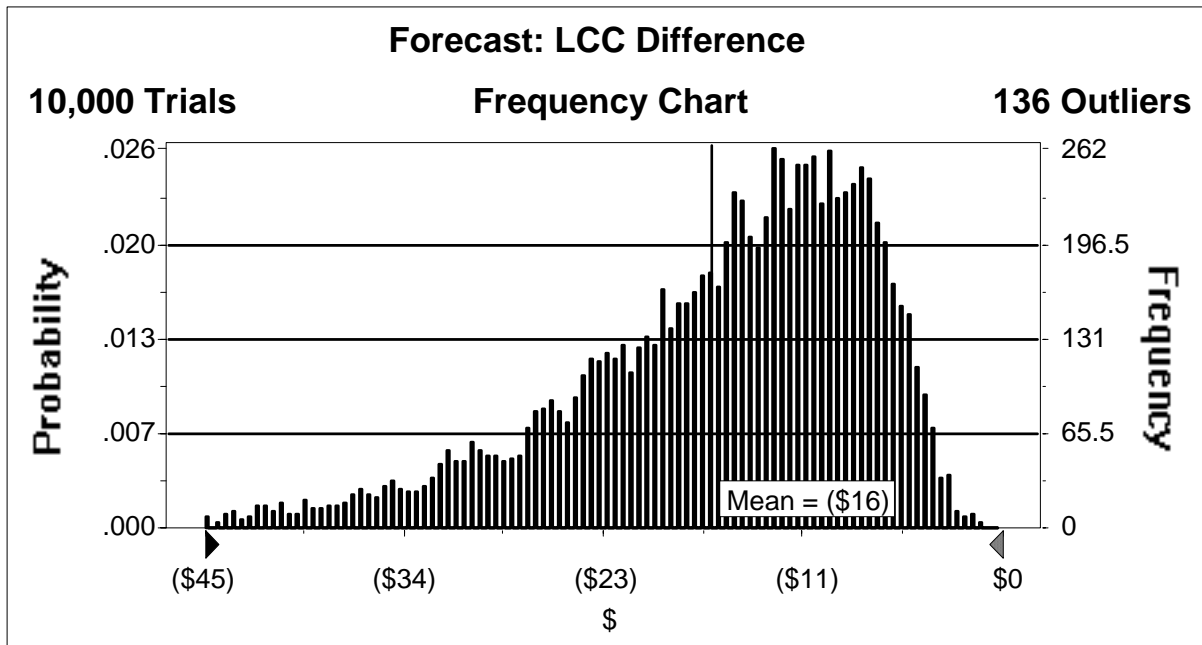


Figure G.23 MEF of 0.860 (5% Reduction in Energy Use), Low Growth. Frequency Chart of LCC Differences

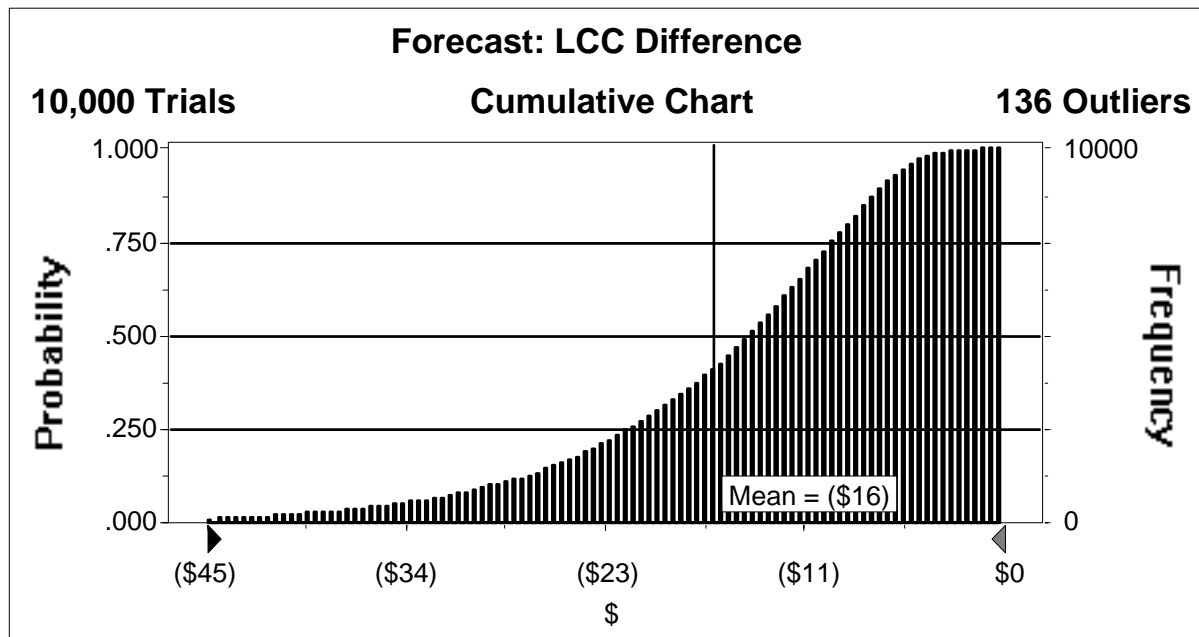
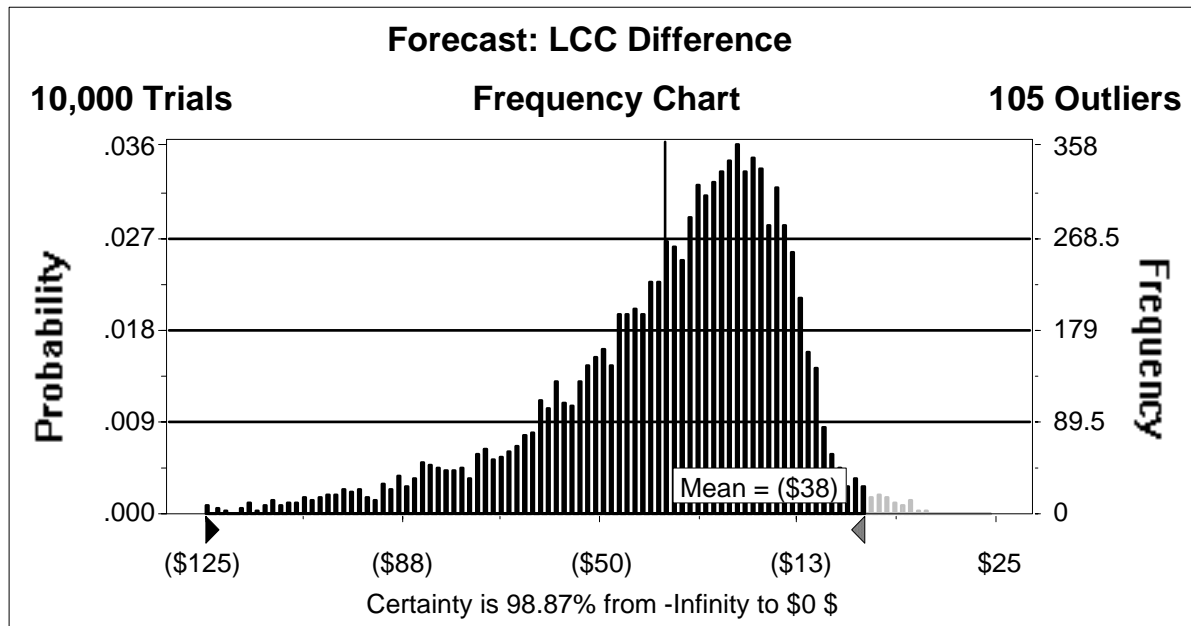
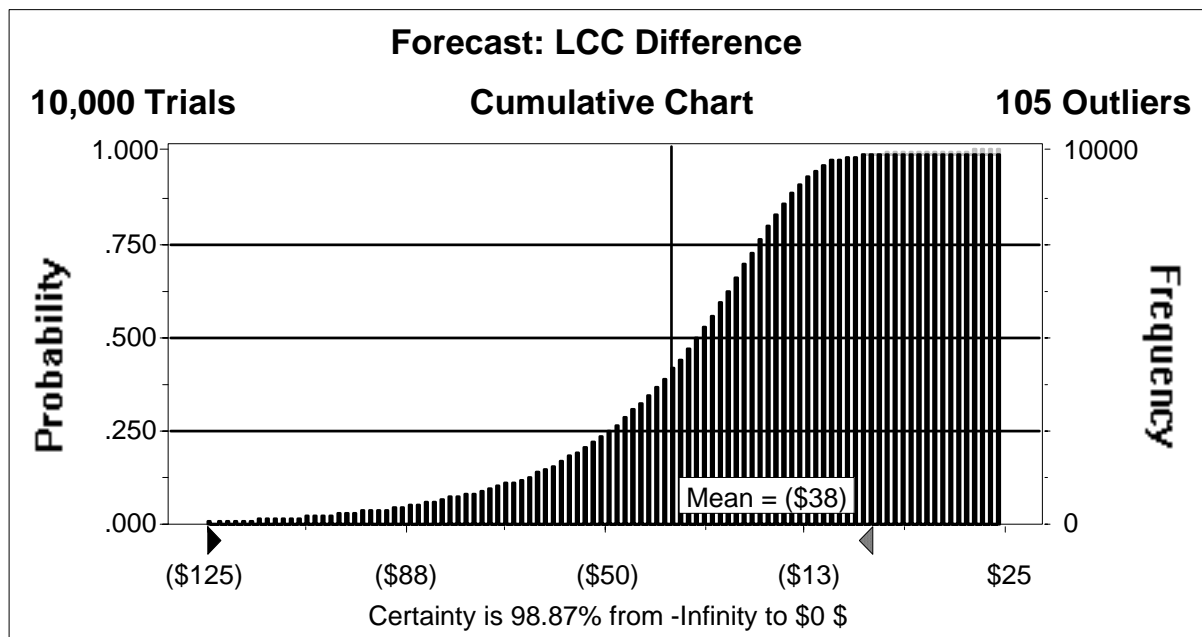


Figure G.24 MEF of 0.86 (5% Reduction in Energy Use), Low Growth. Cumulative Chart of LCC Differences



**Figure G.25 MEF of 0.908 (10% Reduction in Energy Use), Low Growth.
Frequency Chart of LCC Differences**



**Figure G.26 MEF of 0.908 (10% Reduction in Energy Use), Low Growth.
Cumulative Chart of LCC Differences**

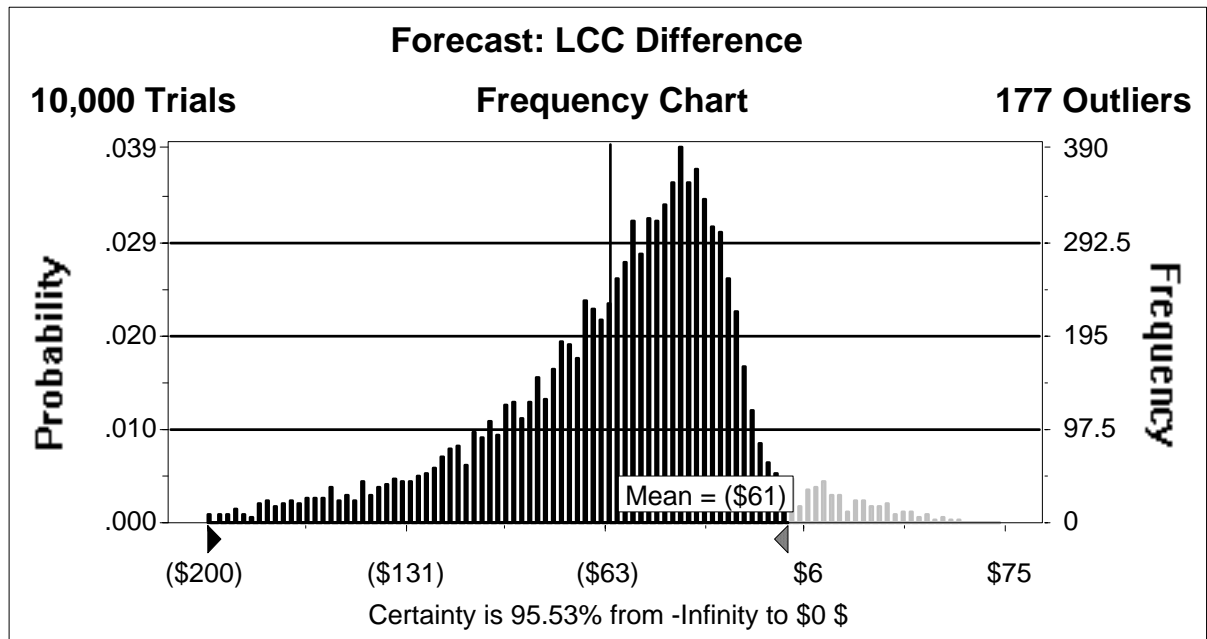


Figure G.27 MEF of 0.961 (15% Reduction in Energy Use), Low Growth. Frequency Chart of LCC Differences

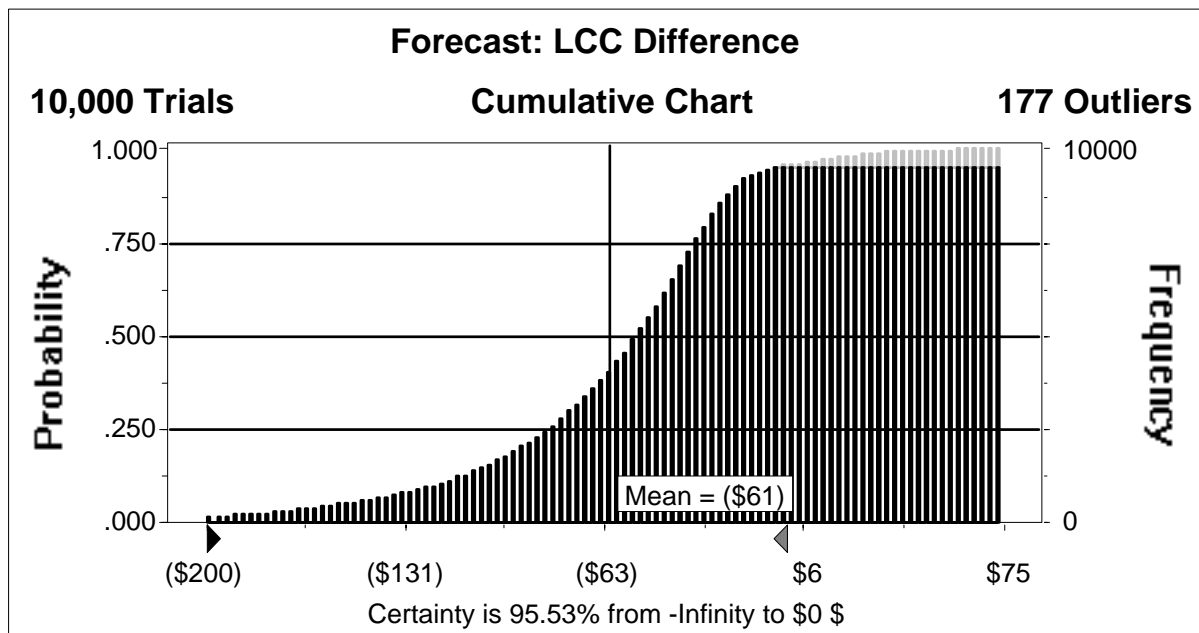


Figure G.28 MEF of 0.961 (15% Reduction in Energy Use), Low Growth. Cumulative Chart of LCC Differences

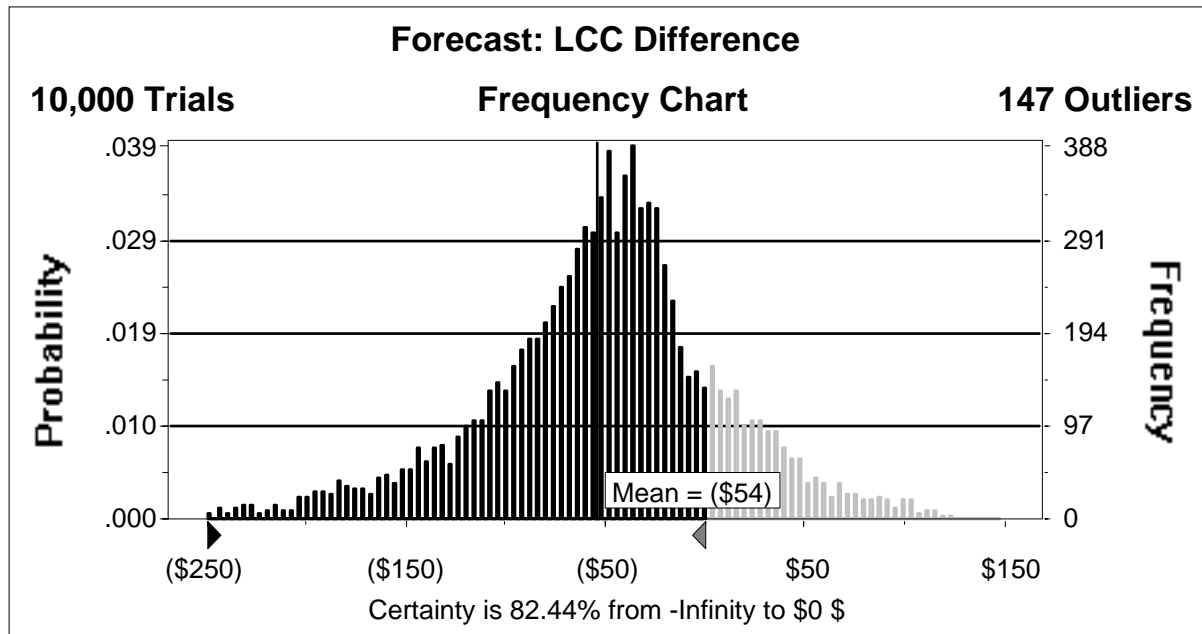


Figure G.29 MEF of 1.021 (20% Reduction in Energy Use), Low Growth.
Frequency Chart of LCC Differences

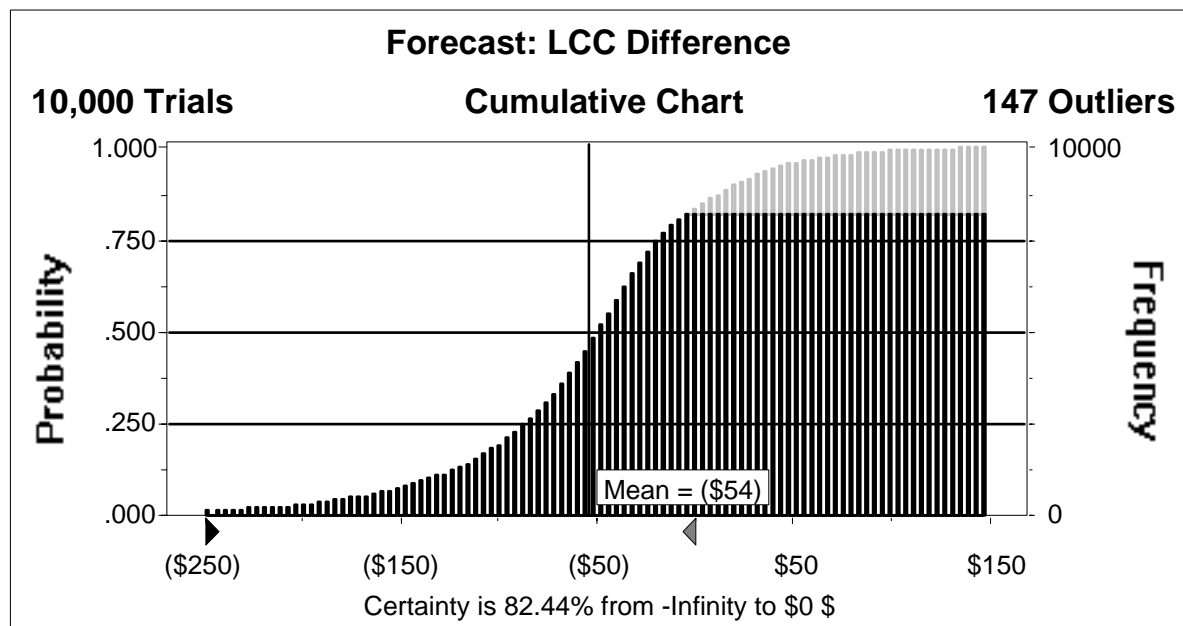


Figure G.30 MEF of 1.021 (20% Reduction in Energy Use), Low Growth.
Cumulative Chart of LCC Differences

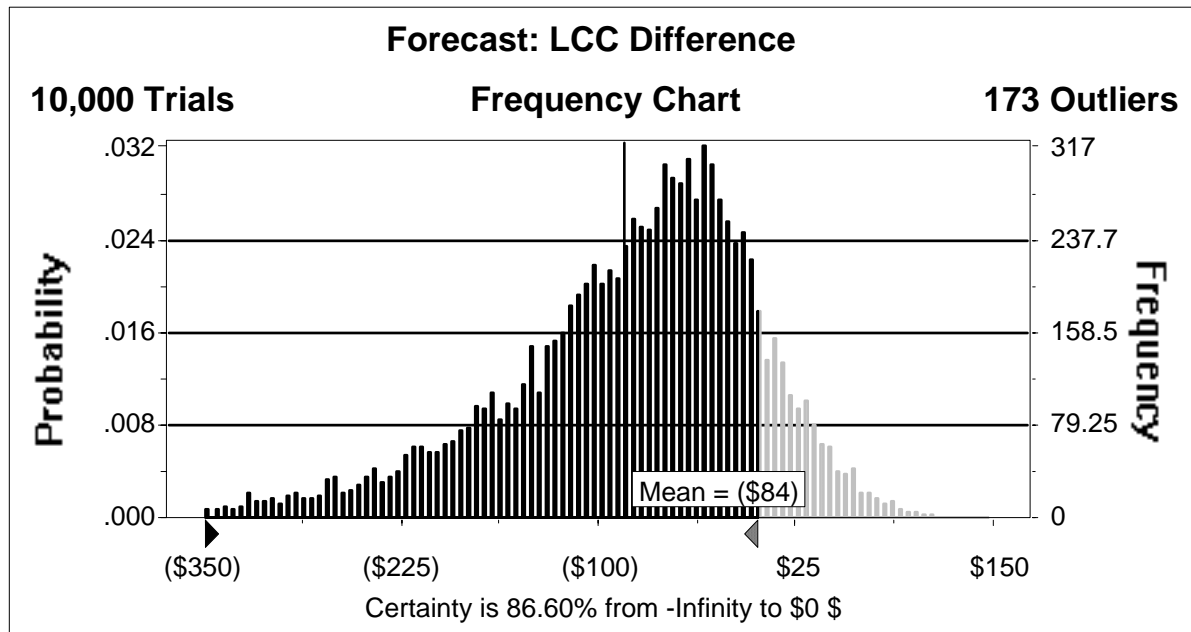


Figure G.31 MEF = 1.04 in 2004, Low Growth. Frequency Chart of LCC Differences

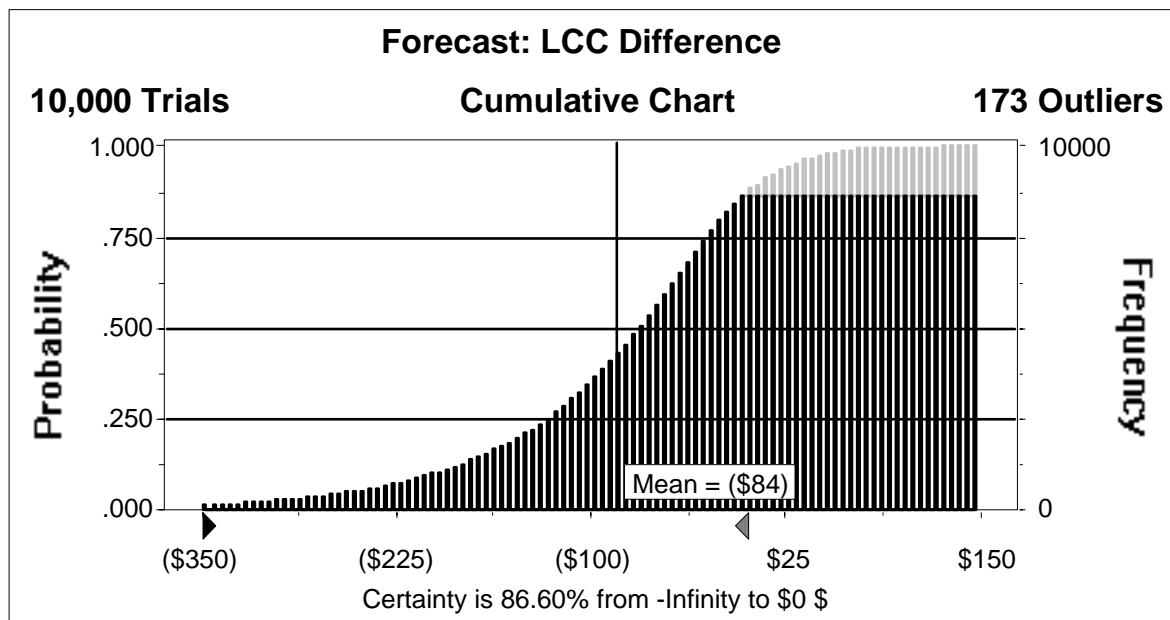


Figure G.32 MEF = 1.04, Low Growth. Cumulative Chart of LCC Differences

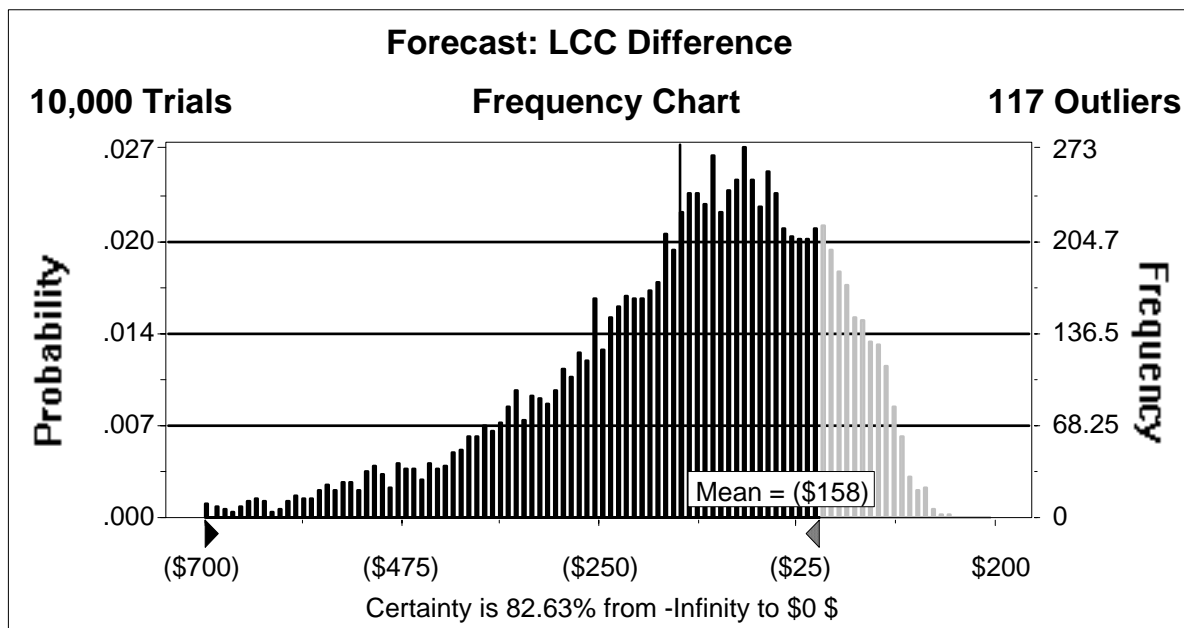


Figure G.33 MEF of 1.089 (25% Reduction in Energy Use), Low Growth.
Frequency Chart of LCC Differences

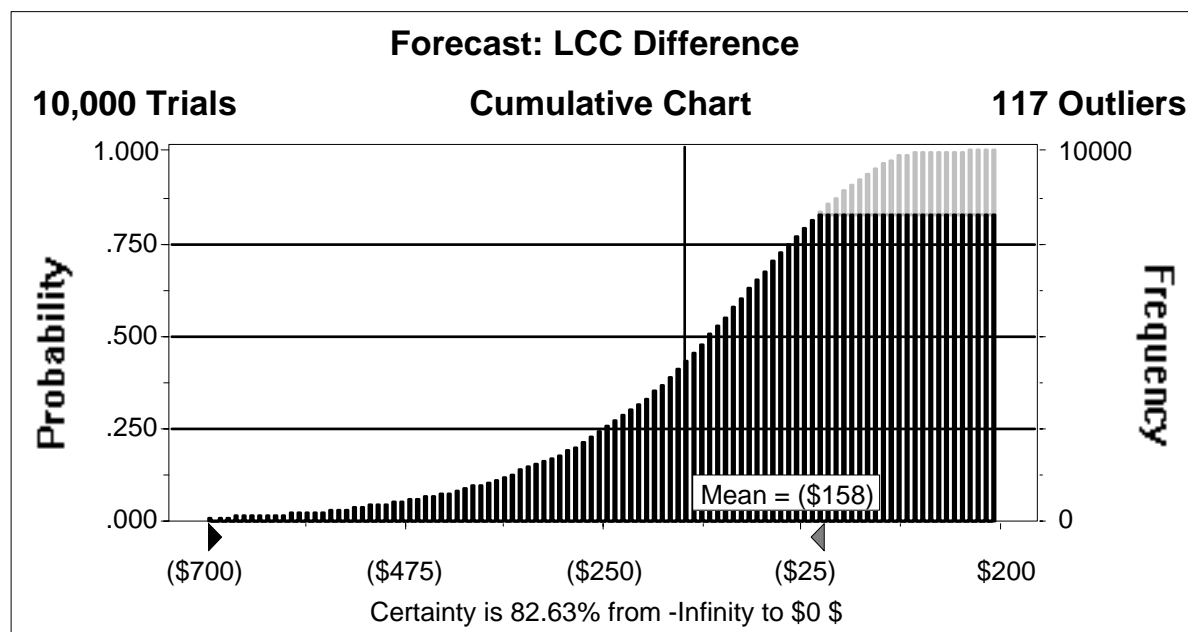


Figure G.34 MEF of 1.089 (25% Reduction in Energy Use), Low Growth.
Cumulative Chart of LCC Differences

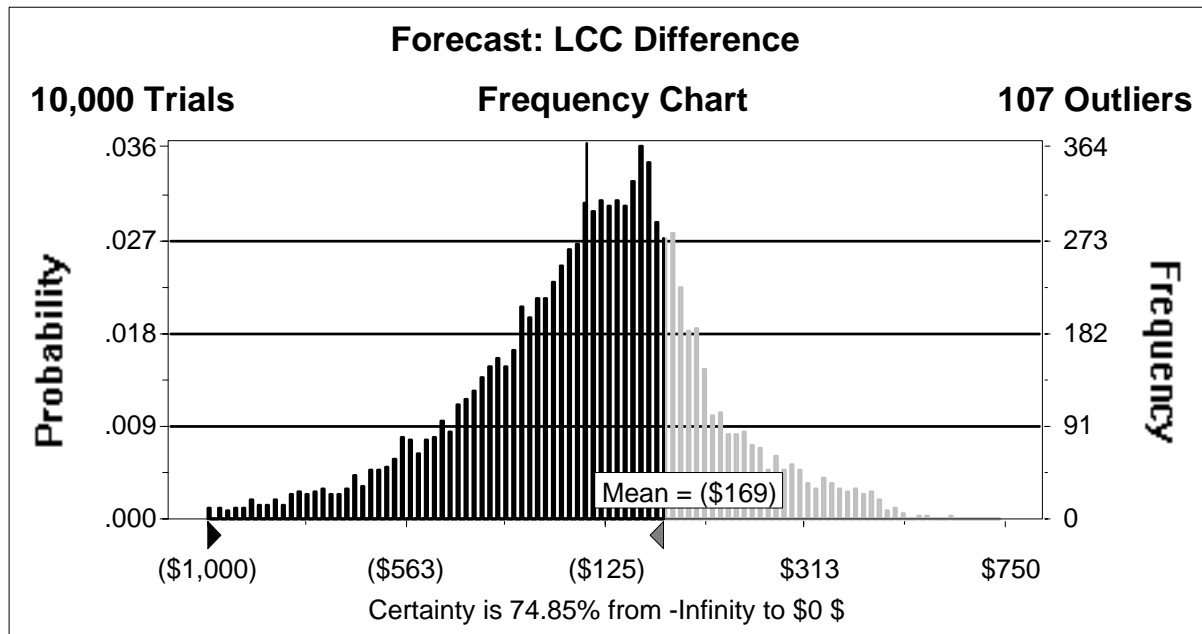


Figure G.35 MEF of 1.257 (35% Reduction in Energy Use), Low Growth.
Frequency Chart of LCC Differences

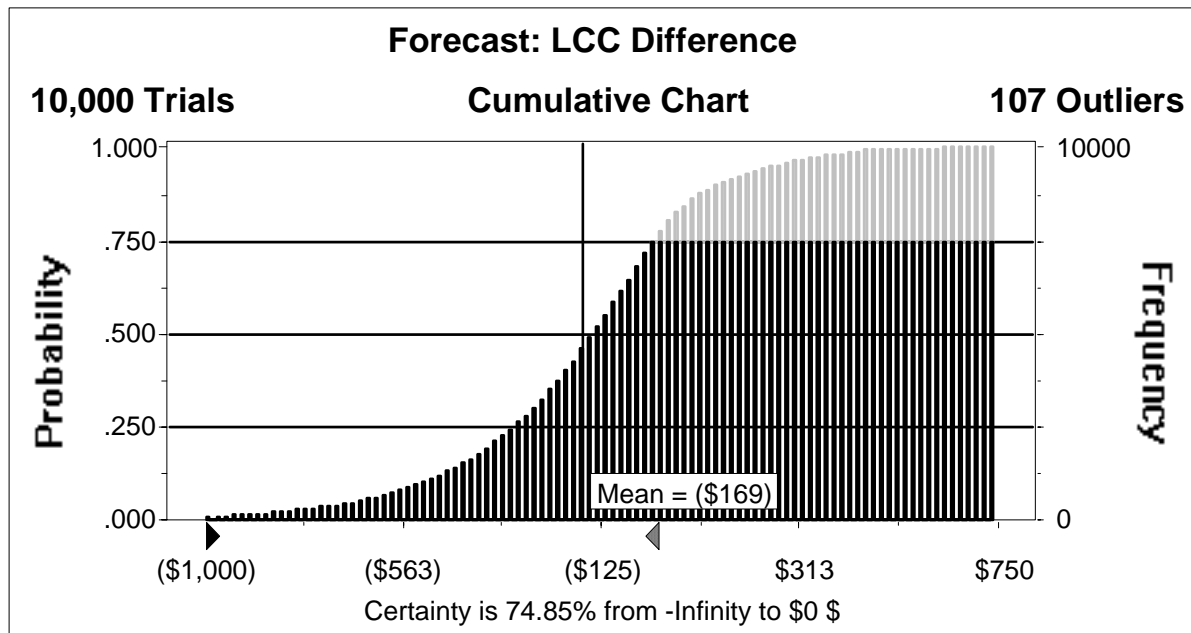


Figure G.36 MEF of 1.257 (35% Reduction of Energy Use), Low Growth.
Cumulative Chart of LCC Differences

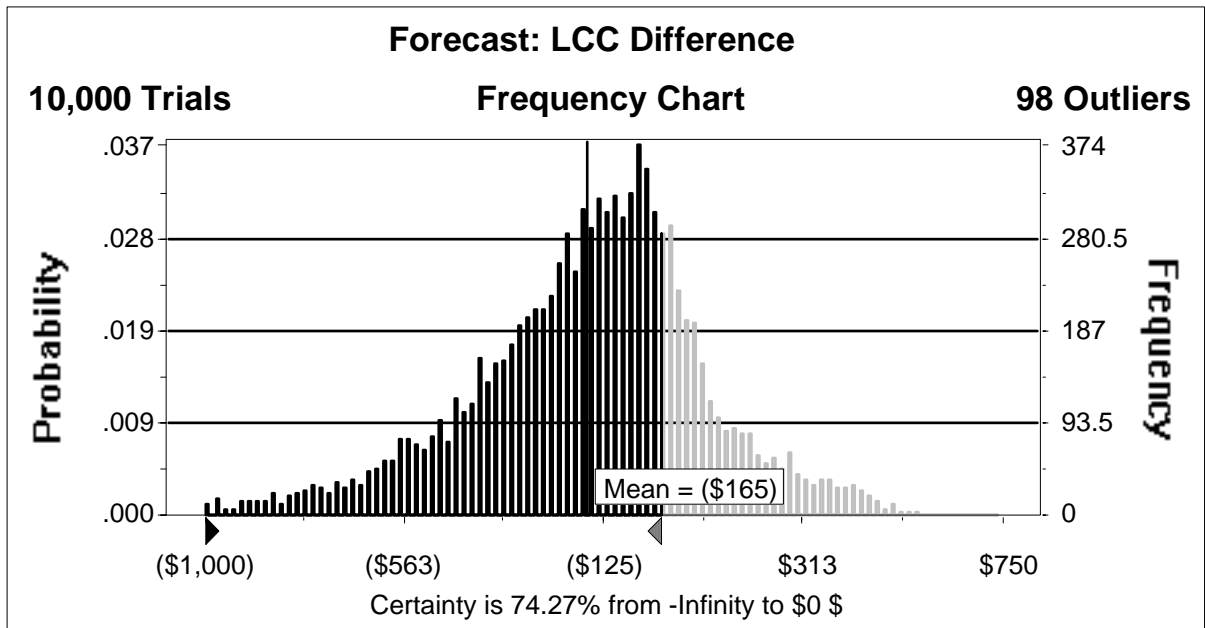


Figure G.37 MEF = 1.26 in 2007, Low Growth. Frequency Chart of LCC Differences

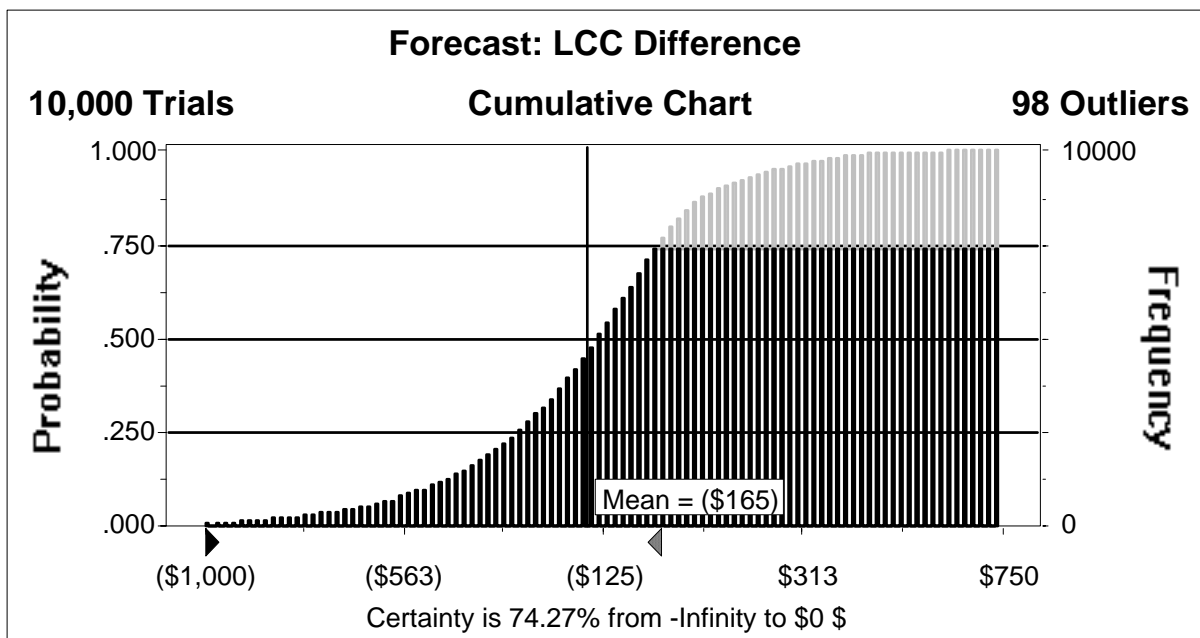


Figure G.38 MEF = 1.26 in 2007, Low Growth. Cumulative Chart of LCC Differences

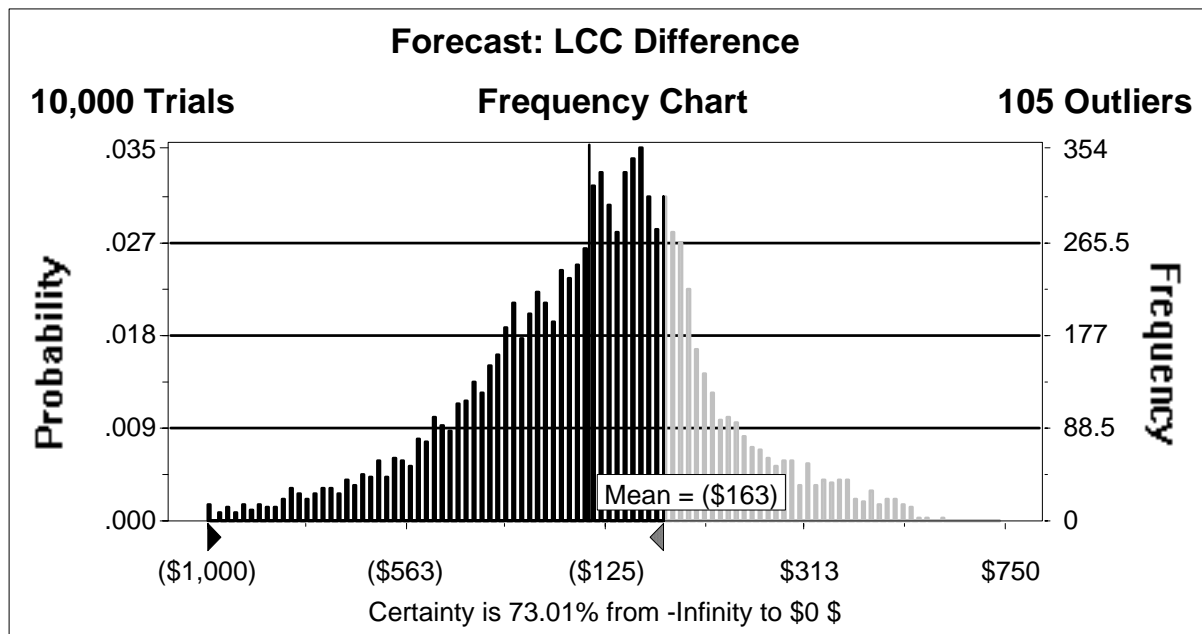


Figure G.39 MEF of 1.362 (40% Reduction in Energy Use), Low Growth. Frequency Chart of LCC Differences

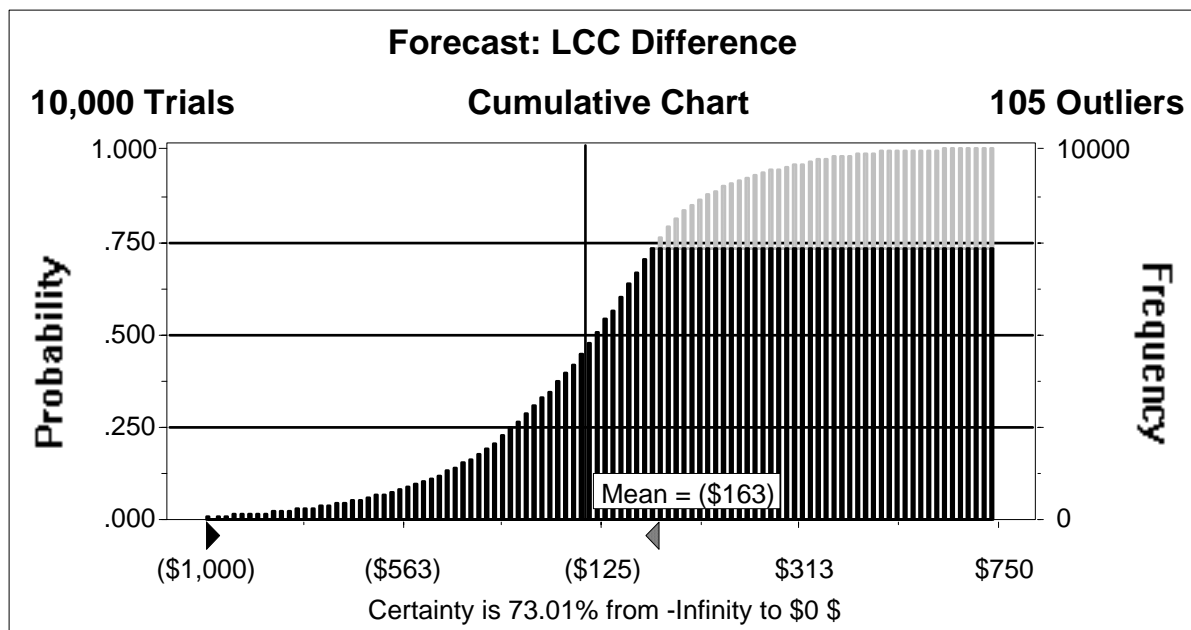
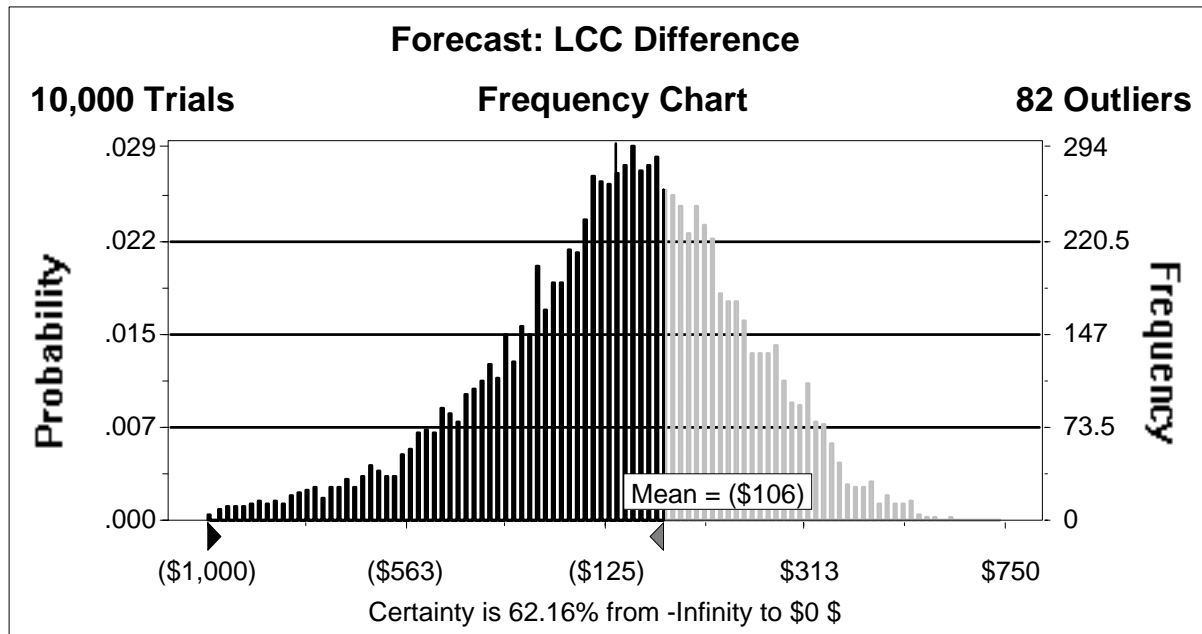
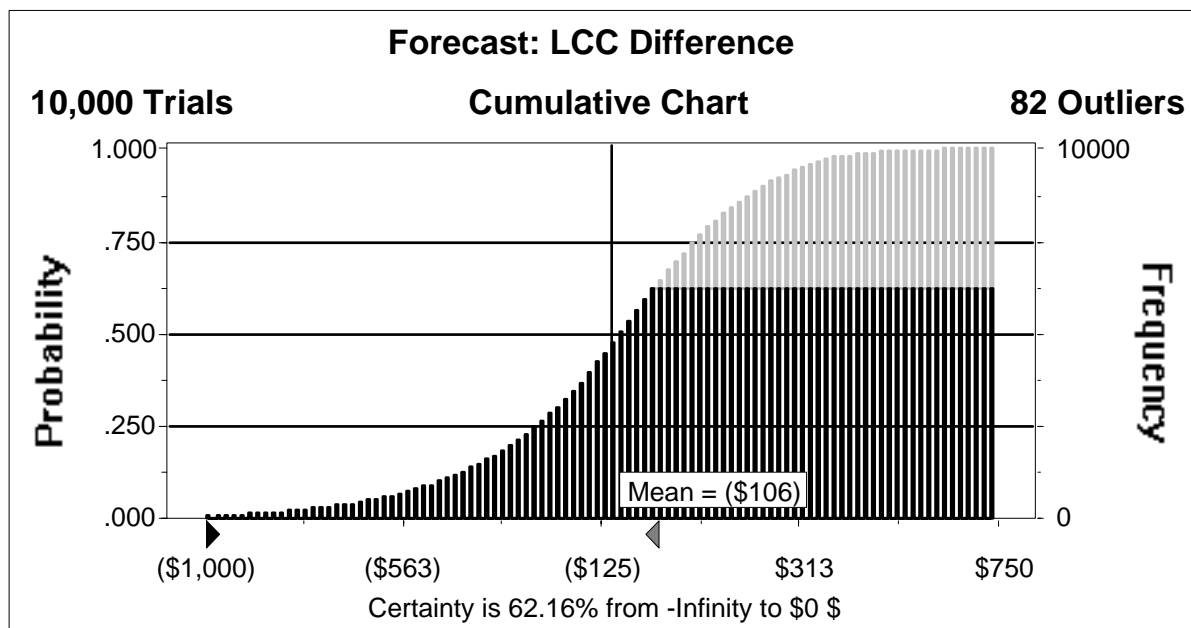


Figure G.40 MEF of 1.362 (40% Reduction in Energy Use), Low Growth. Cumulative Chart of LCC Differences



**Figure G.41 MEF of 1.485 (45% Reduction in Energy Use), Low Growth.
Frequency Chart of LCC Differences**



**Figure G.42 MEF of 1.485 (45% Reduction in Energy Use), Low Growth.
Cumulative Chart of LCC Differences**

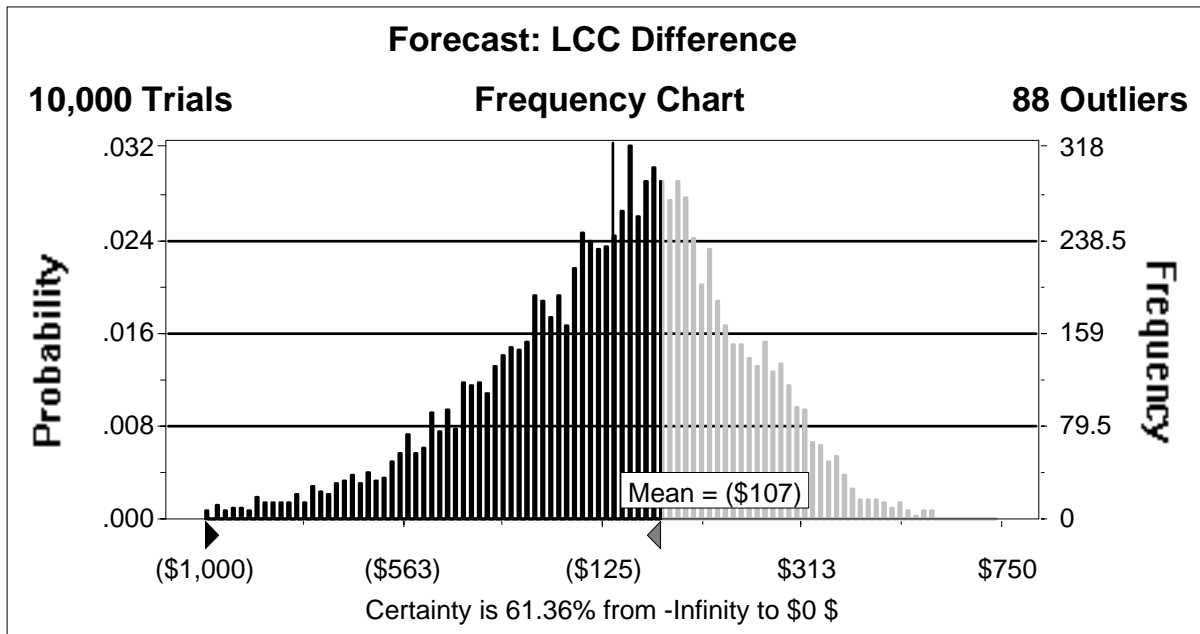


Figure G.43 MEF of 1.634 (50% Reduction in Energy Use), Low Growth.
Frequency Chart of LCC Differences

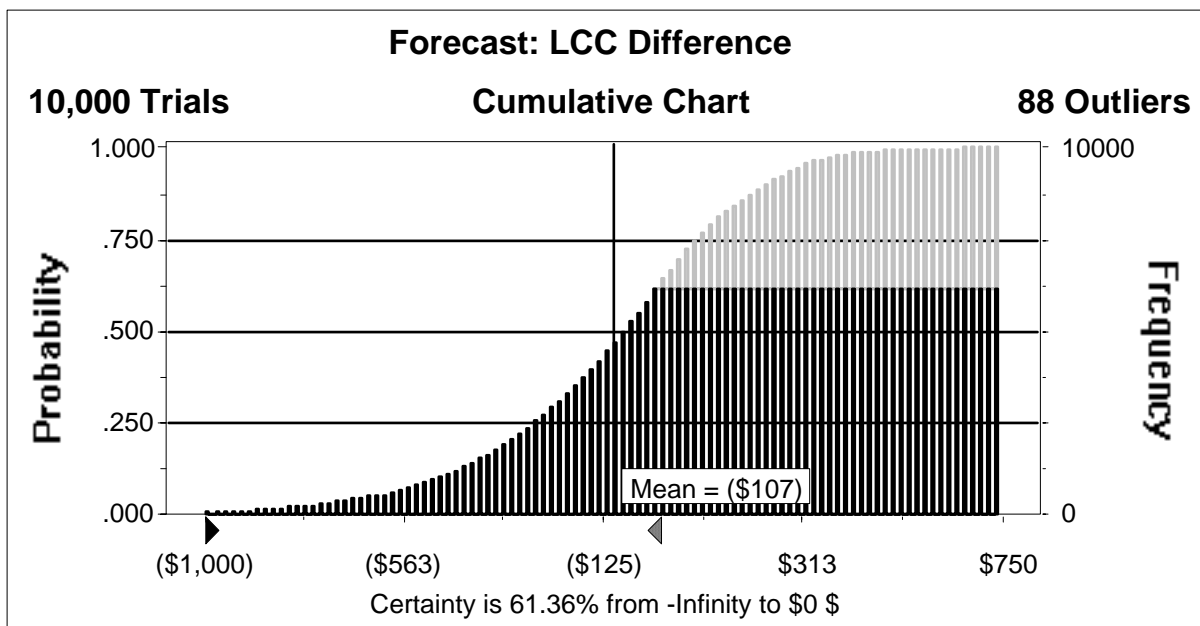


Figure G.44 MEF of 1.634 (50% Reduction in Energy Use), Low Growth.
Cumulative Chart of LCC Differences

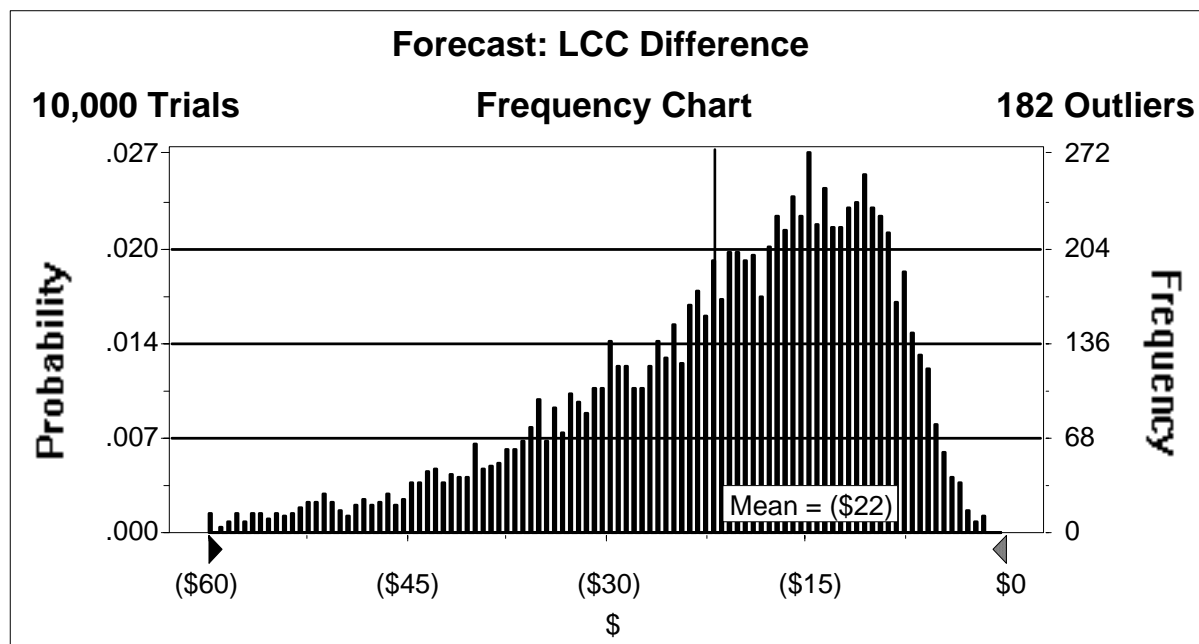


Figure G.45 MEF of 0.860 (5% Reduction in Energy Use), High Growth. Frequency Chart of LCC Differences

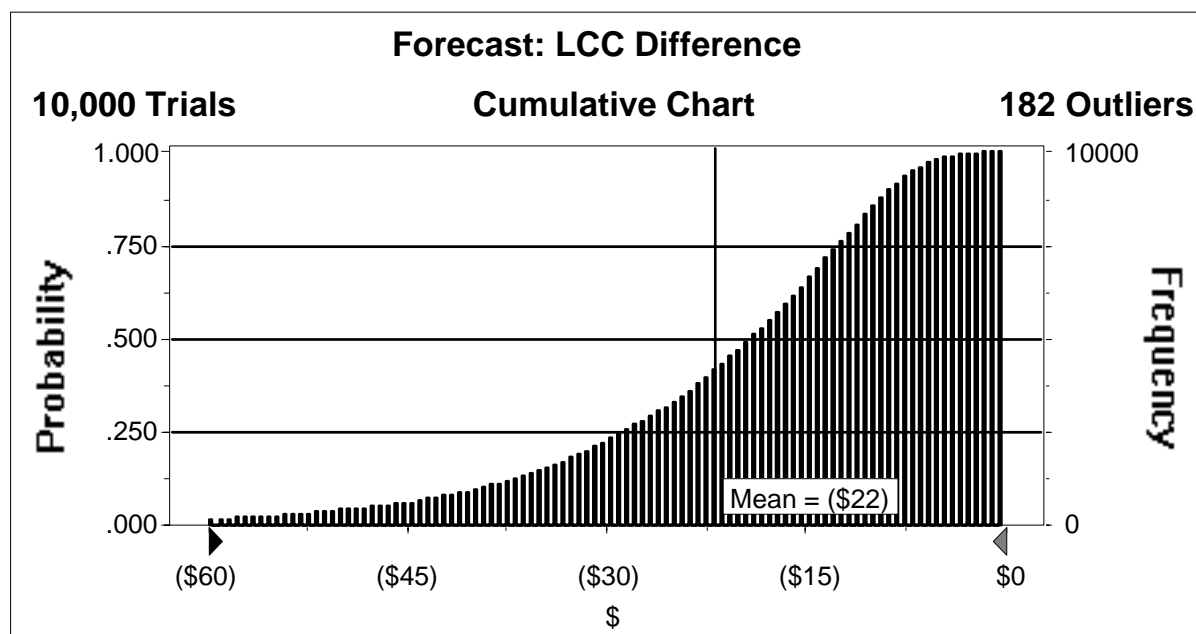


Figure G.46 MEF of 0.86 (5% Reduction in Energy Use), High Growth. Cumulative Chart of LCC Differences

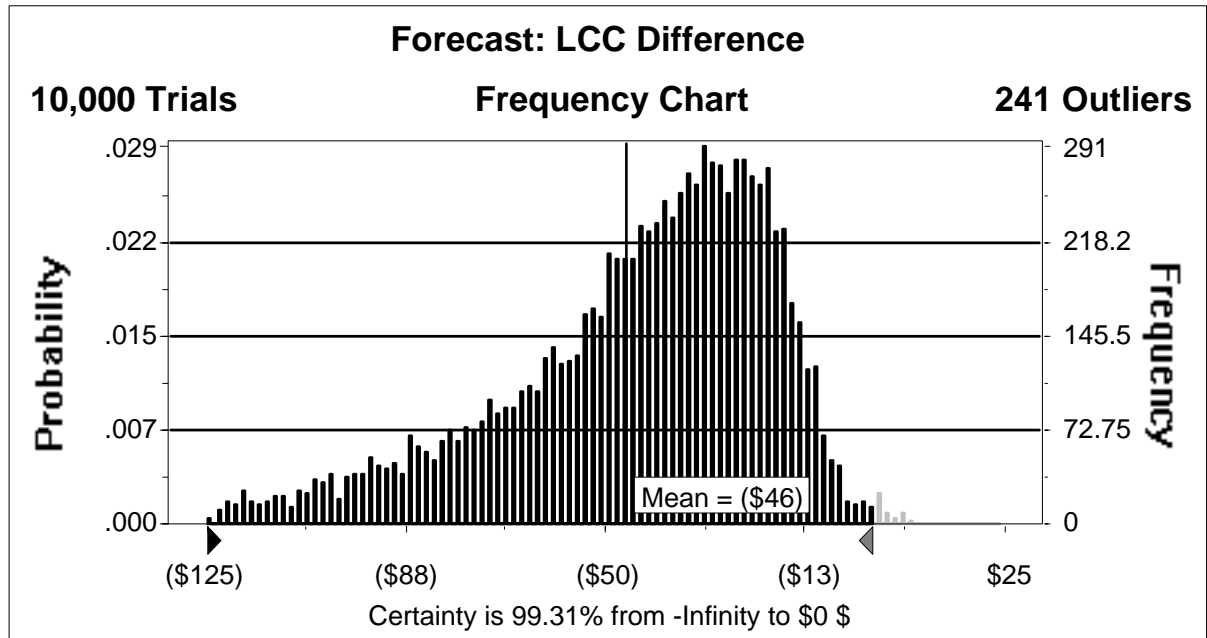


Figure G.47 MEF of 0.908 (10% Reduction in Energy Use), High Growth. Frequency Chart of LCC Differences

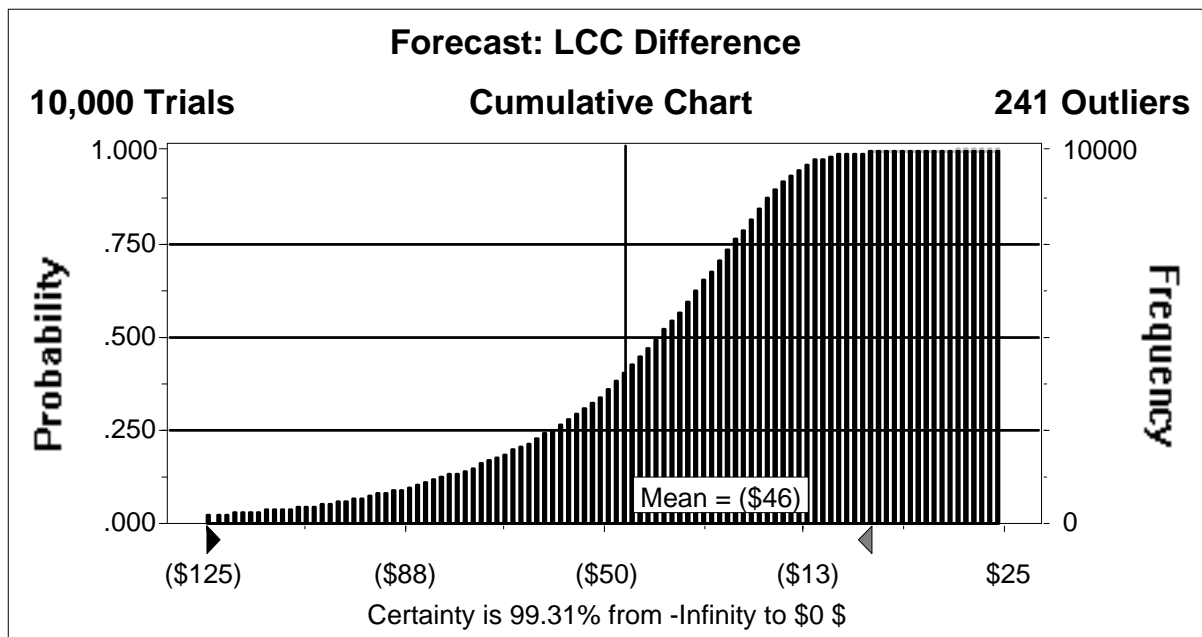


Figure G.48 MEF of 0.908 (10% Reduction in Energy Use), High Growth. Cumulative Chart of LCC Differences

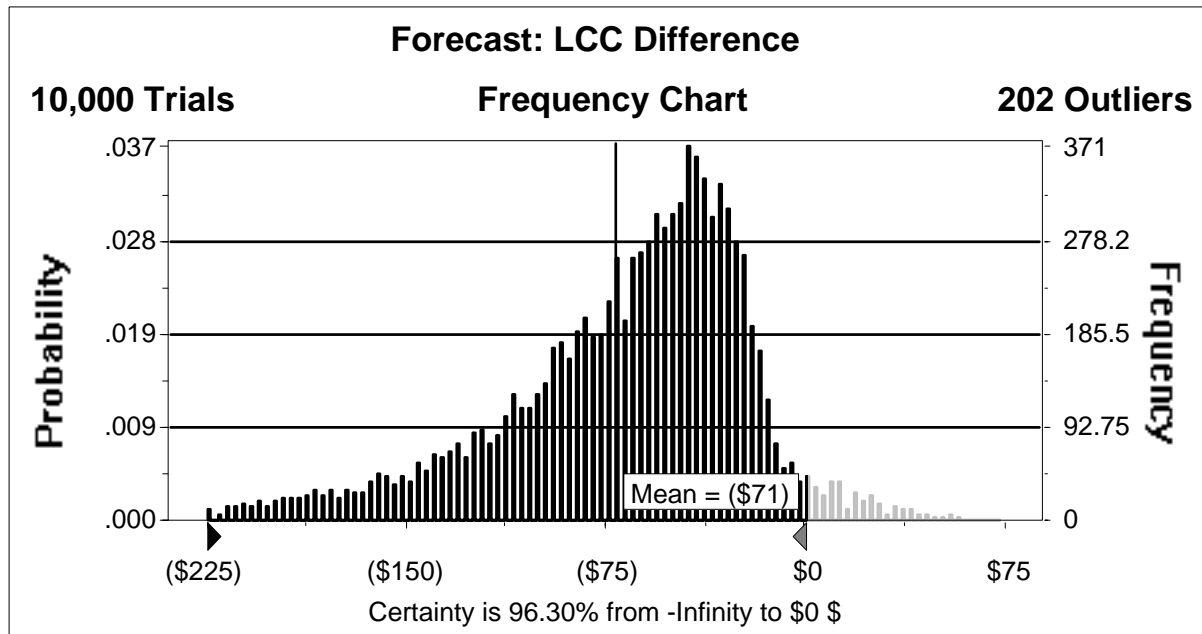


Figure G.49 **MEF of 0.961 (15% Reduction in Energy Use), High Growth.**
Frequency Chart of LCC Differences

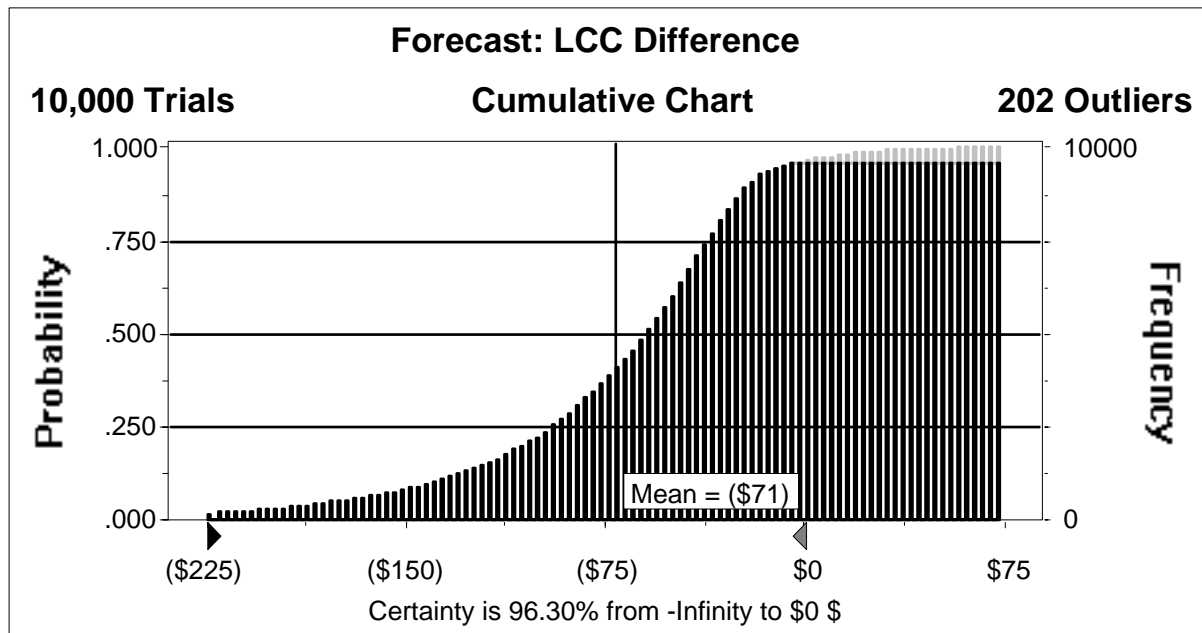


Figure G.50 **MEF of 0.961 (15% Reduction in Energy Use), High Growth.**
Cumulative Chart of LCC Differences

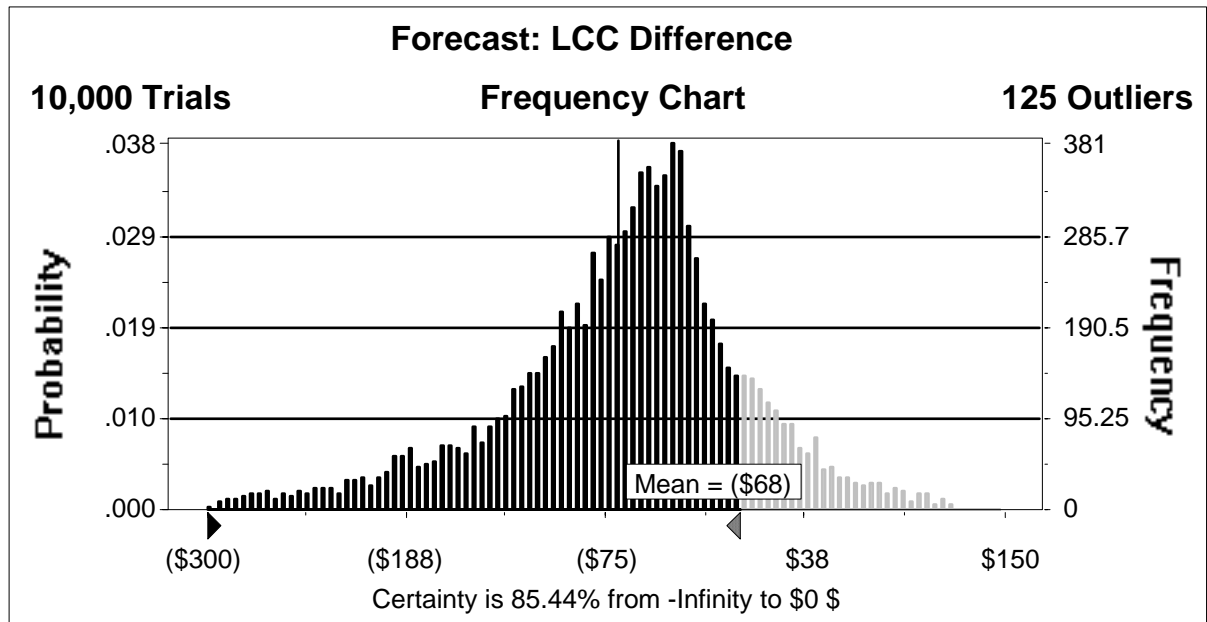


Figure G.51 MEF of 1.021 (20% Reduction in Energy Use), High Growth. Frequency Chart of LCC Differences

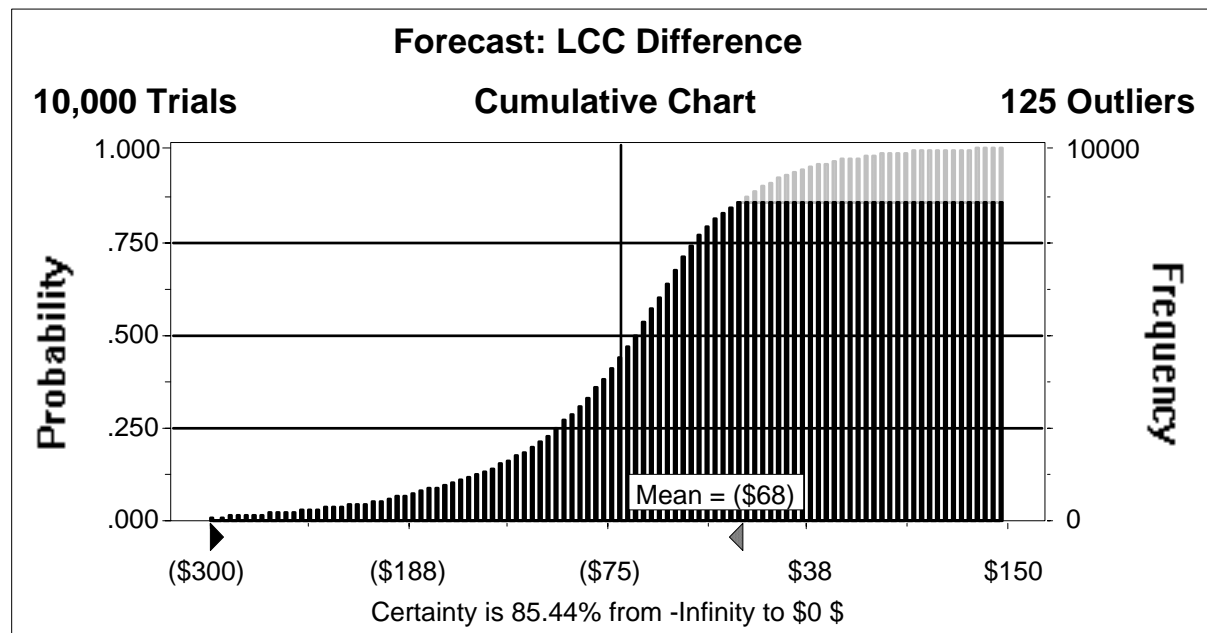


Figure G.52 MEF of 1.021 (20% Reduction in Energy Use), High Growth. Cumulative Chart of LCC Differences

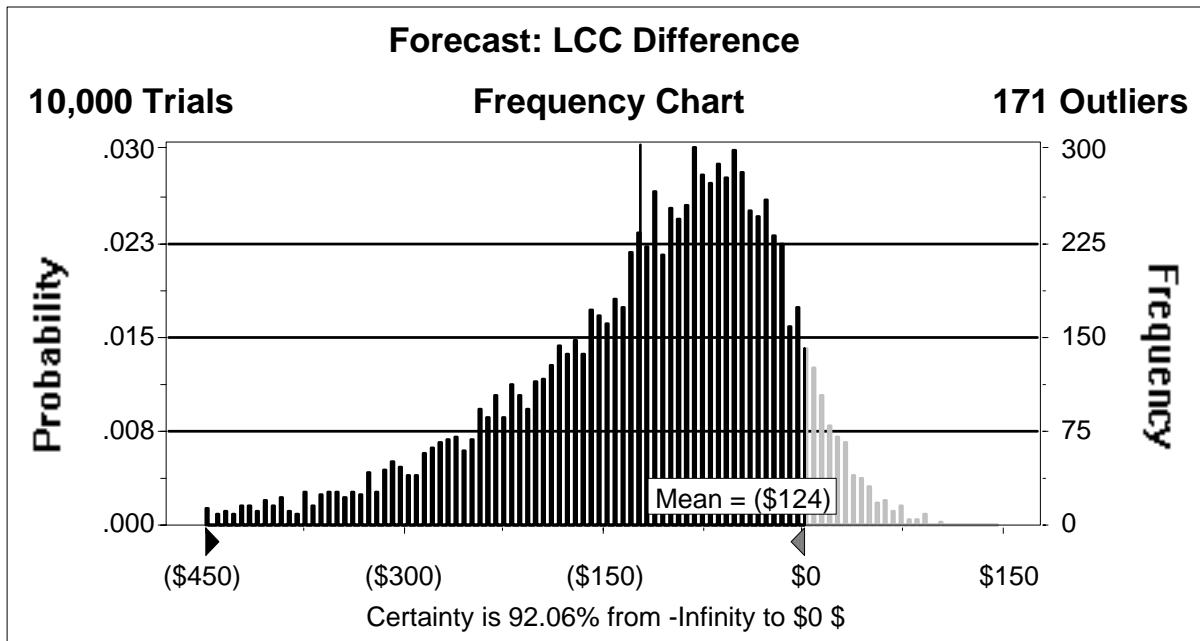


Figure G.53 MEF = 1.04 in 2004, High Growth. Frequency Chart of LCC Differences

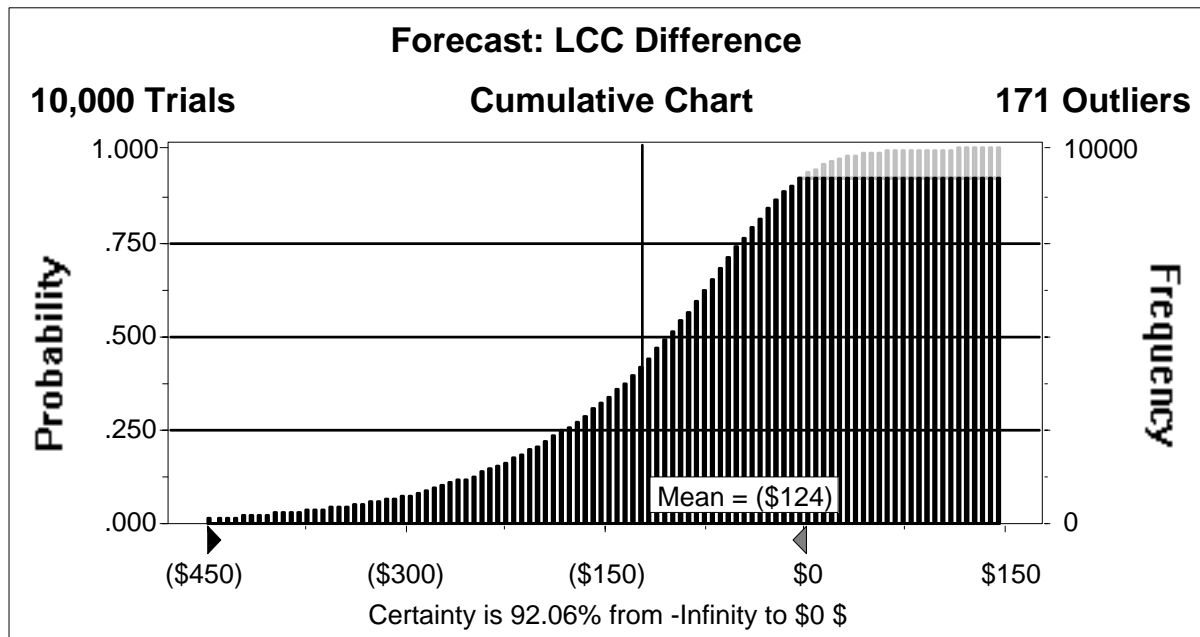


Figure G.54 MEF = 1.04 in 2007, High Growth. Cumulative Chart of LCC Differences

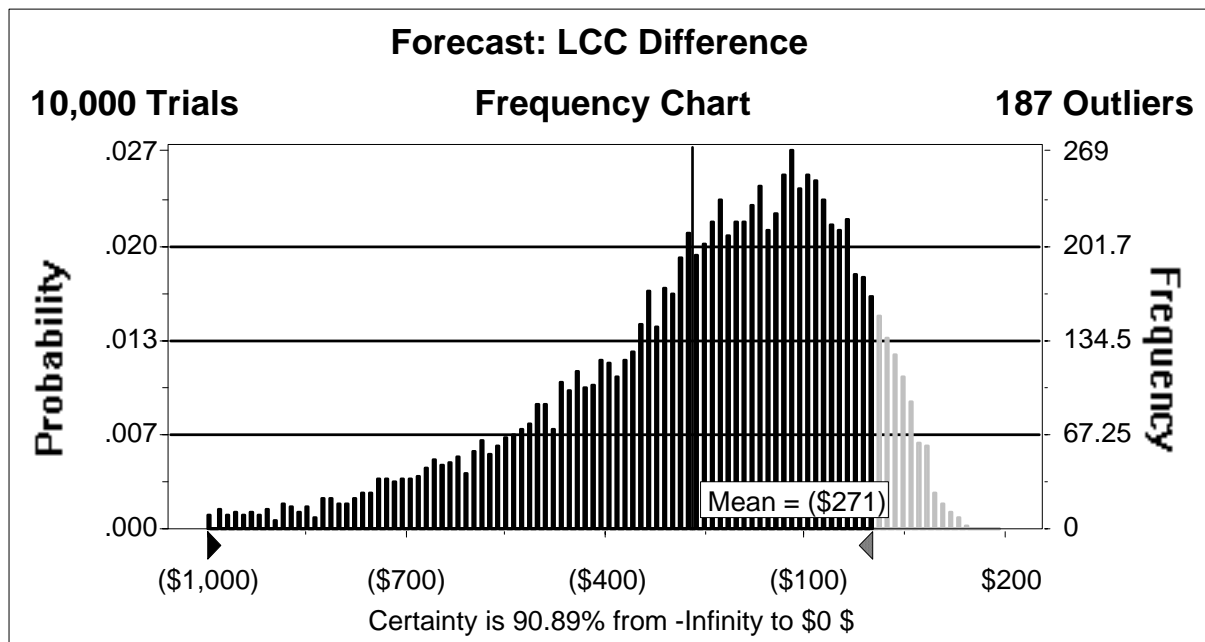


Figure G.55 **MEF of 1.089 (25% Reduction in Energy Use), High Growth. Frequency Chart of LCC Differences**

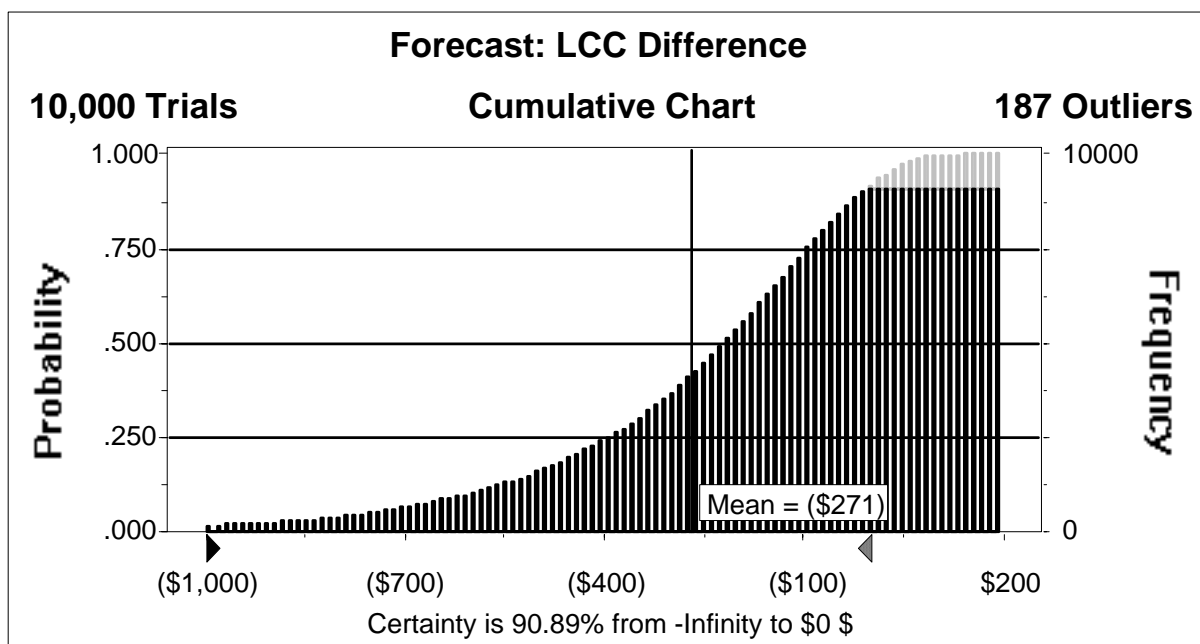


Figure G.56 **MEF of 1.089 (25% Reduction in Energy Use), High Growth. Cumulative Chart of LCC Differences**

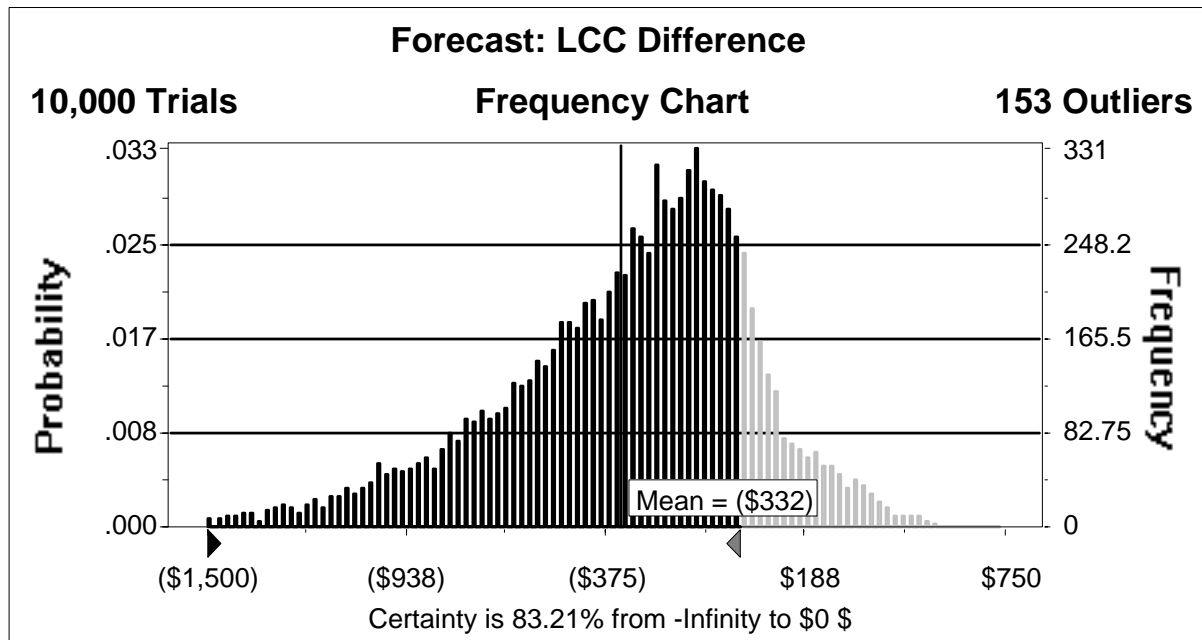


Figure G.57 MEF of 1.257 (35% Reduction in Energy Use), High Growth.
Frequency Chart of LCC Differences

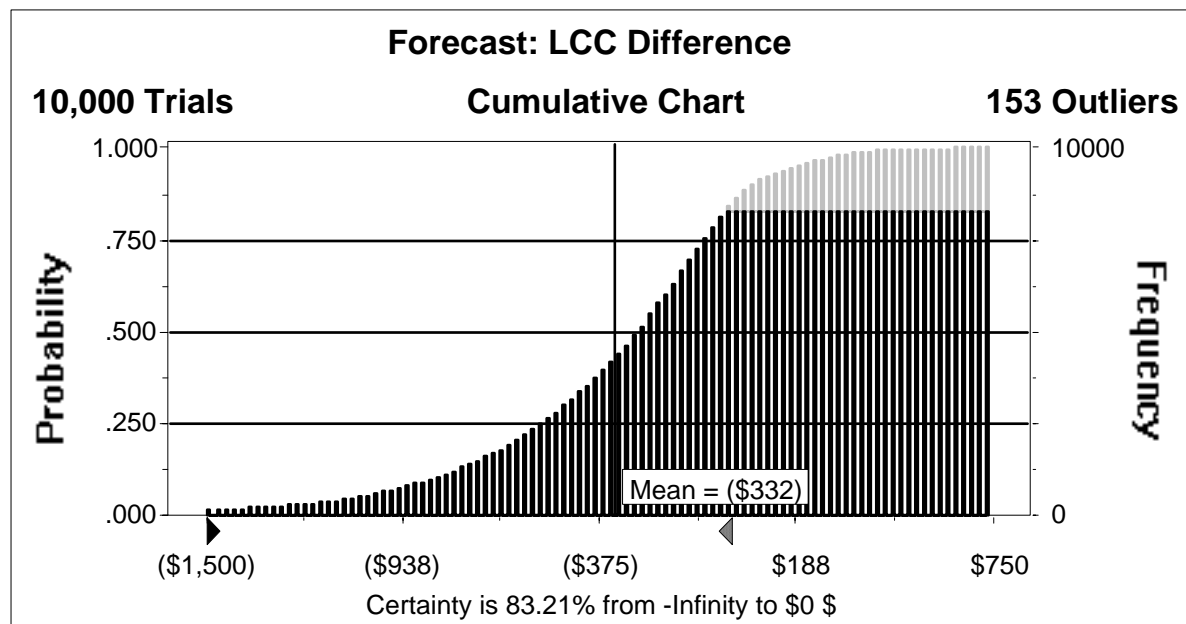


Figure G.58 MEF of 1.257 (35% Reduction in Energy Use), High Growth.
Cumulative Chart of LCC Differences

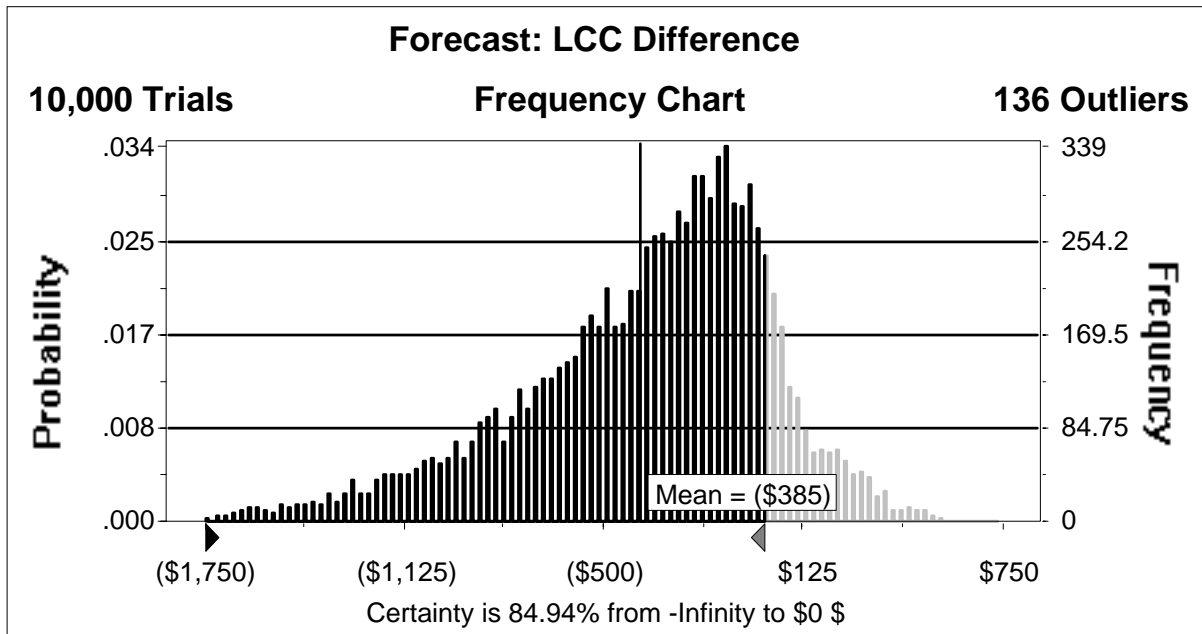


Figure G.59 MEF = 1.26 in 2007, High Growth. Frequency Chart of LCC Differences

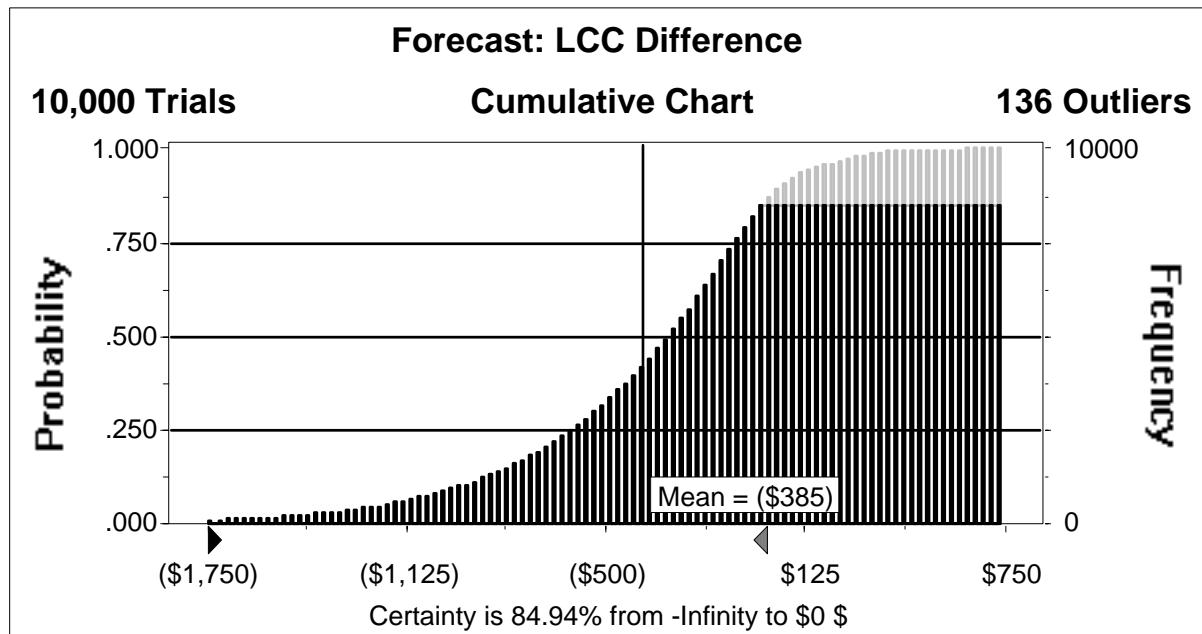


Figure G.60 MEF = 1.26 in 2007, High Growth. Cumulative Chart of LCC Differences

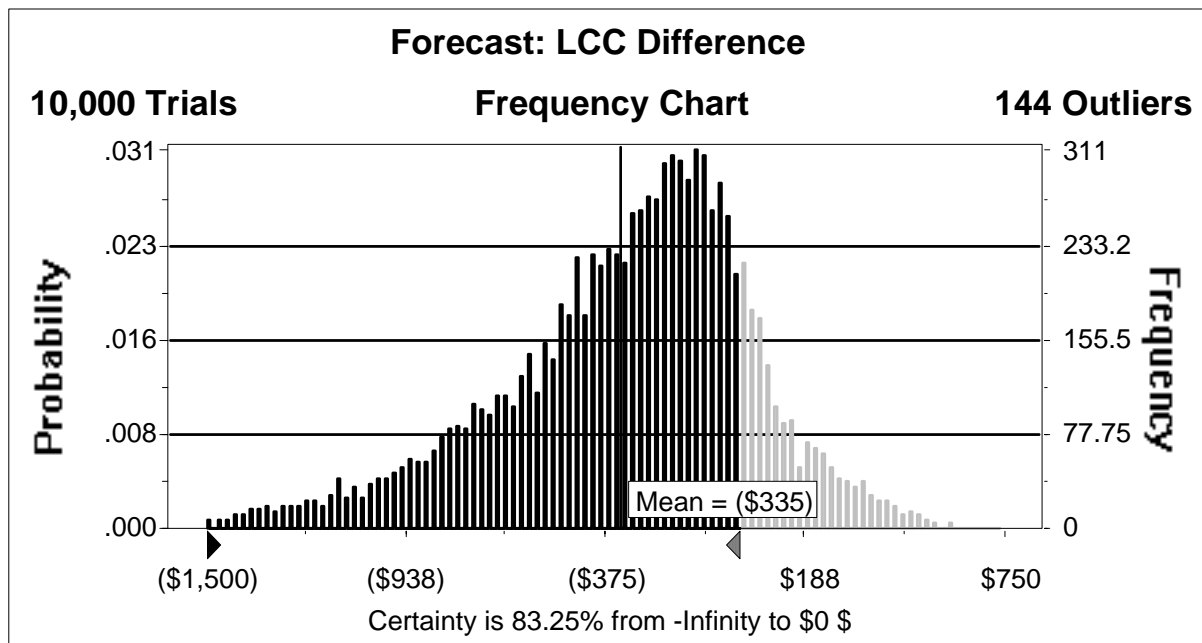


Figure G.61 MEF of 1.362 (40% Reduction in Energy Usage), High Growth.
Frequency Chart of LCC Differences

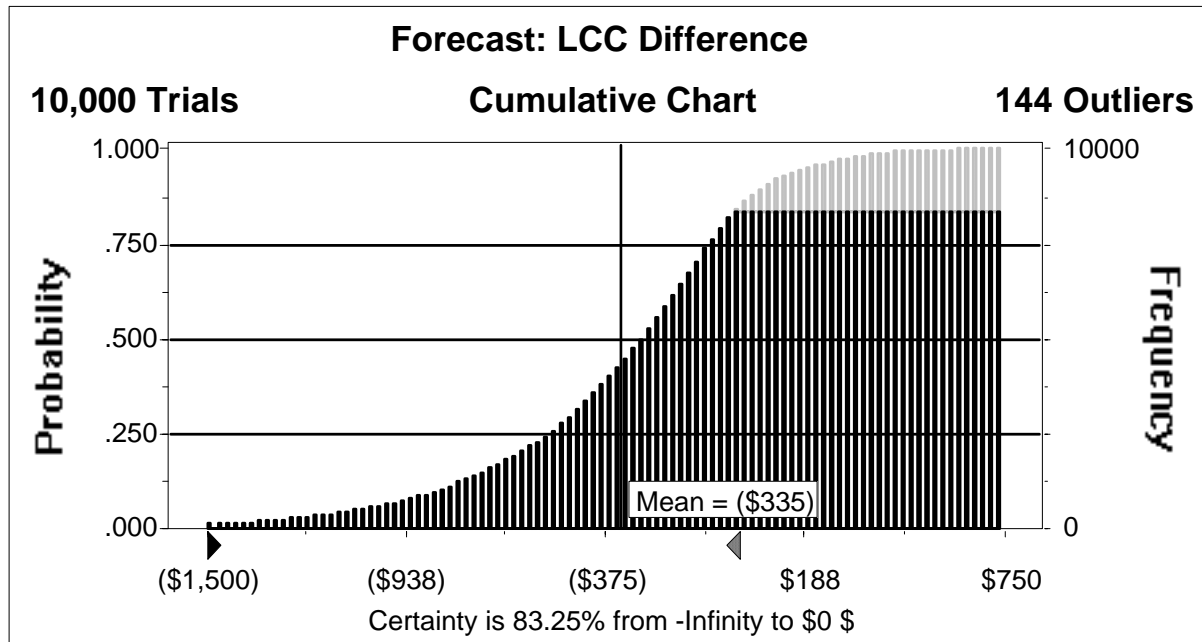


Figure G.62 MEF of 1.362 (40% Reduction in Energy Use), High Growth.
Cumulative Chart of LCC Differences

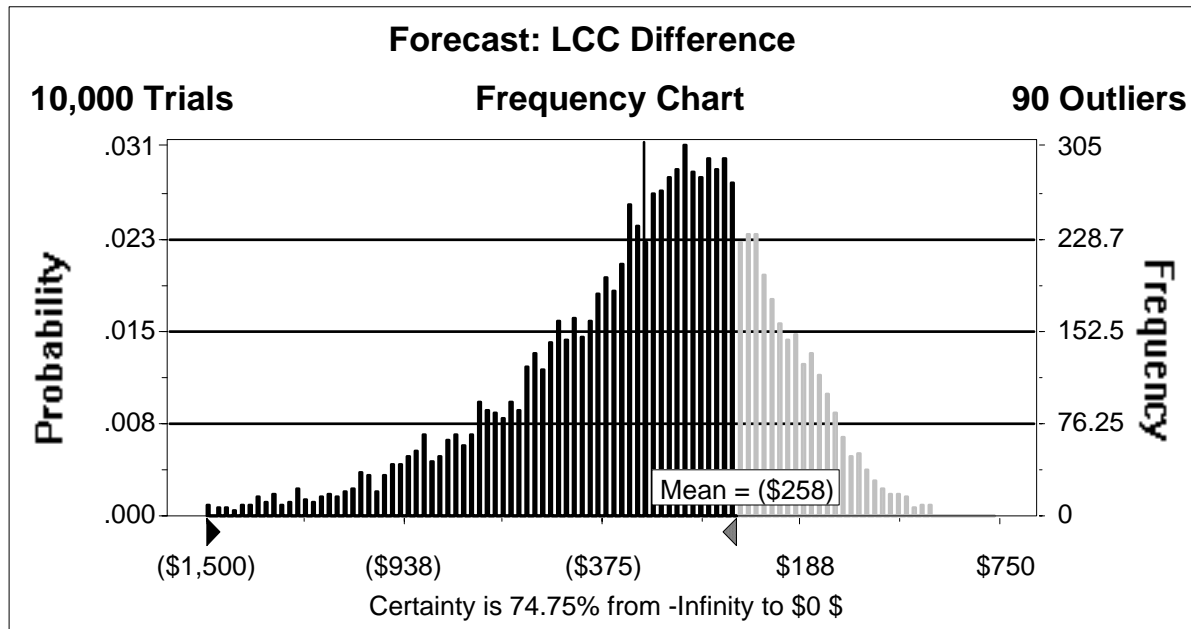


Figure G.63 MEF of 1.485 (45% Reduction in Energy Use), High Growth.
Frequency Chart of LCC Differences

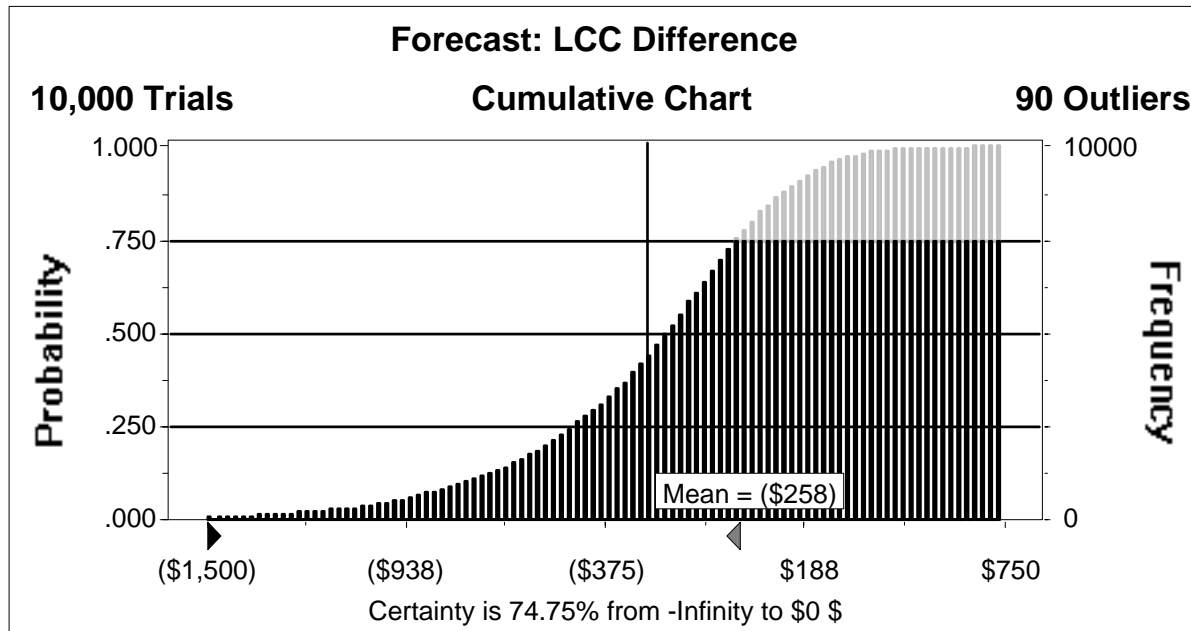


Figure G.64 MEF of 1.485 (45% Reduction in Energy Use), High Growth.
Cumulative Chart of LCC Differences

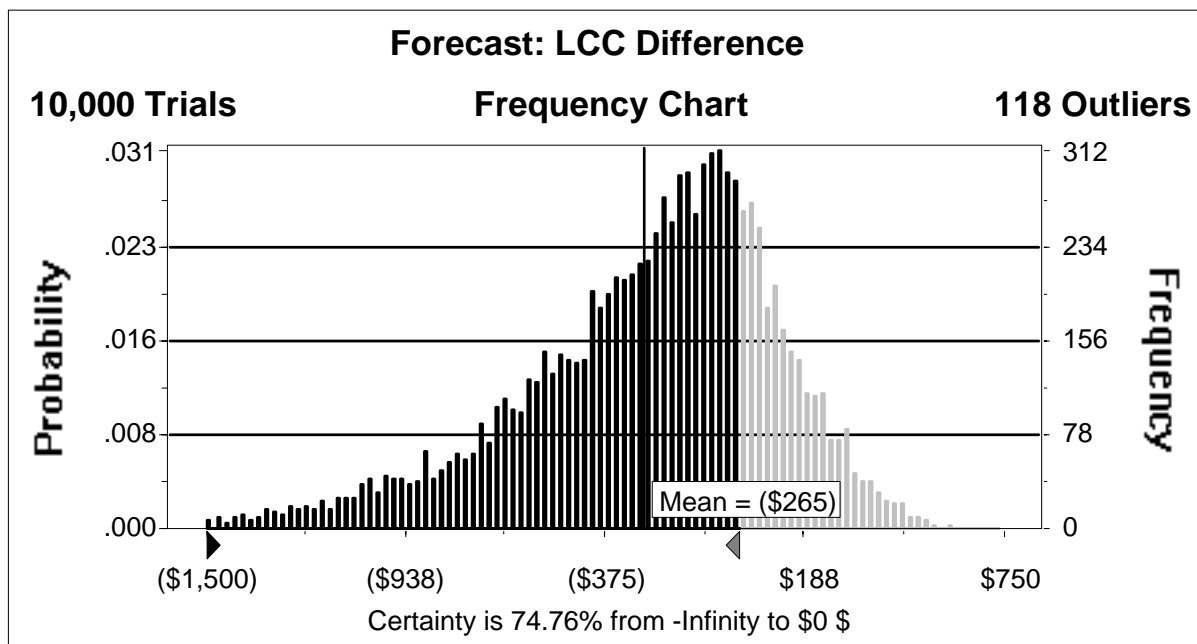


Figure G.65 MEF of 1.634 (50% Reduction in Energy Use), High Growth. Frequency Chart of LCC Differences

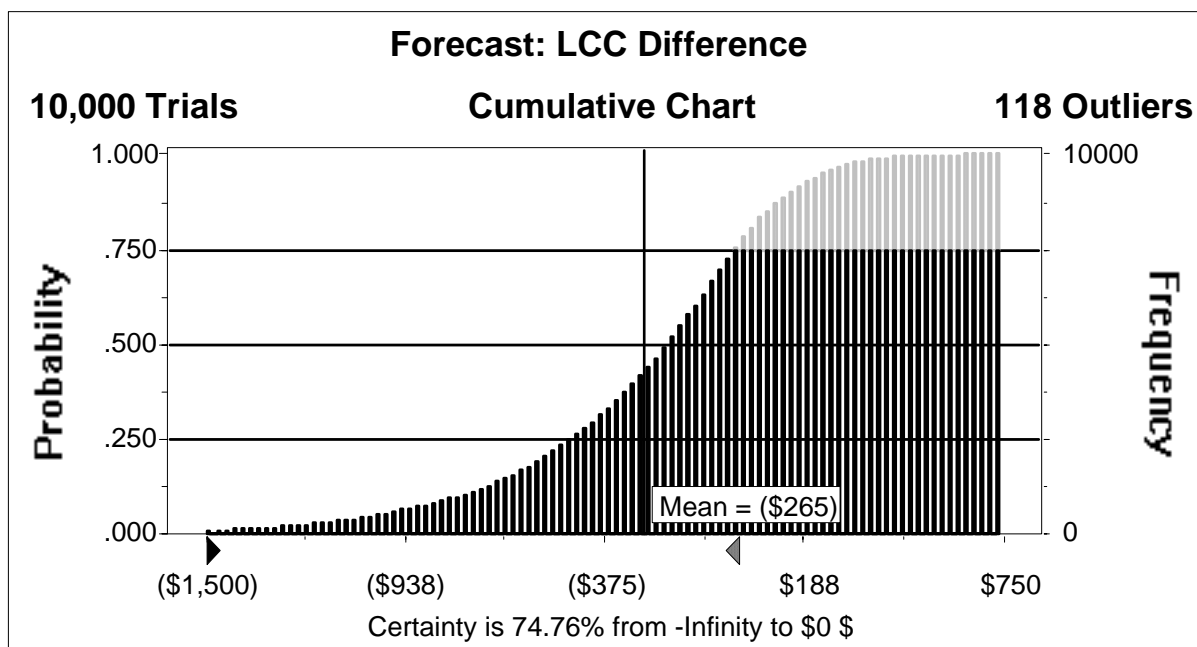


Figure G.66 MEF of 1.634 (50% Reduction in Energy Use), High Growth. Cumulative Chart of LCC Differences